VMC1
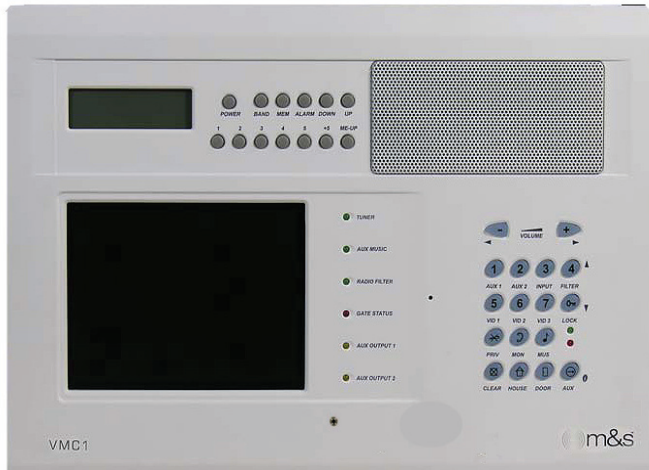## VIDEO SECURITY INTERCOM & MUSIC SYSTEM
QUICK START GUIDE

VMC1

VIDEO SECURITY INTERCOM SYSTEM FOR THE HOME


Linear®
Building On Innovation.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION!

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.
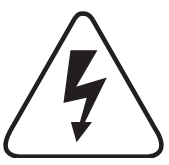
SHOCK WARNING!

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALL OR USE THE VMC1 MUST BE INSTALLED BY TRAINED DEALERS OR INSTALLERS, AND MUST CONFORM TO ALL LOCAL BUILDING AND ELECTRICAL CODES

Warning: Always follow these safety instructions. Retain these instructions for future system reference.

DO NOT expose the VMC1 to moisture or fire or shock hazards can occur, and impair the warranty.

DO NOT expose Stations to direct water spray or damage will occur

DO NOT attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards and will invalidate your warranty. Neither the Master Station nor the Room Stations contain any user-serviceable parts. **REFER ALL SERVICING TO QUALIFIED SERVICE PERSONNEL. USE ONLY** M&S Systems replacement parts and have them installed by an M&S Systems dealer or installer. Unauthorized substitutions can result in fire, electric shock, or other hazards and will void the warranty.

Upon completion of any service or product repair, the M&S Systems dealer or installer should conduct a safety check to ensure safe operating condition.

Use only a dry cloth to clean the Master Station, Room Stations Door Stations, and speakers. Do not use liquid cleaners or aerosol cleaners.

TO Clean Video and Camera lens, use a clean dry cloth only

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO *QUALIFIED SERVICE PERSONNEL.*
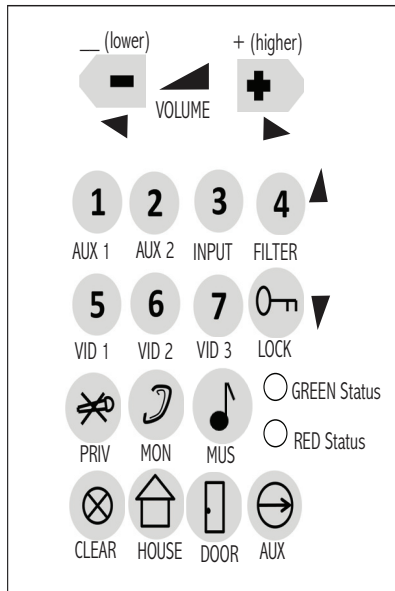
VMC1 Quick Start Guide
Table of Contents

Keep this manual in a safe place for future reference. If you lose the manual, you can download it from the Linear Web site: **www.linearcorp.com**

Intercom Functions

The VMC1 Video Security Intercom System can initiate "private" room to room conversations and whole house conversations or pages. To respond to a call or page, there are no buttons to press. The response at all stations are "hands free" and there is no need to stop what you are doing.

NOTE: Door Stations calls are only initiated from the Door Station.

Room to Room Calling

All Stations in the VMC1 system have an ID number. Press this number to talk or page another station and have a "private" conversation.

Create Groups

Multiple Room Stations can be programmed with the same ID to create a "Group". Groups are treated like a single Room Station. Depending on your specific installation and requirements, your Stations may he programmed for a single digit or double digit ID. If you have more than seven (7) interior Stations, including the Master, or use AUX OUTPUTS from a Nightstand Station, your system should be programmed for Double Digit Operation.

Single Digit Operation:

In Single Digit Operation, all Stations have an ID from **1 to 7** corresponding to the numbered buttons at all Stations.

1. Press Station call number to talk to that station. Green Status LED lights up at that station and the RED Status LED blinks at all Stations indicating that the system is active.

Note that only one conversation can be active at a time.

2. Release the button and wait for a response.
3. The response from the Paged Station is hands free.
4. To initiate a response from the Paging Station, press the digit again.
5. To end the conversation, press CLEAR.
6. Twenty seconds after last button press, system times out and RED Status LED light turns OFF.

Double Digit Operation

In Double Digit Operation,
all Stations have an I.D. from:
Press two digits for the Station to talk to. RED Status
LED blinks at all Stations to indicate the VMC1 system
is active.

11 to 17
21 to 27
or 31 to 37

NOTE: Only one conversation can be active at a time.

7.   Release the button and wait for a response. Response from the
     Paged Station is hands-free.
8.   To answer back from the Paged Station, press 2nd
     digit again.
9.   To terminate the conversation, press CLEAR.
10. System times out after 20 seconds after last button
     press. RED Status LED turns off.

Whole House Calling

1.   To initial a whole house Page to all Stations, press
     HOUSE and speak into the microphone.
2.   All responses are hands free.
3.   To continue the conversation press HOUSE and
     speak.
4.   To end the conversation, press CLEAR.
5.   System times out after 20 seconds after pressing
     the last button press. RED Status LED turns OFF.

Other Intercom Functions

Listen to Music or access Audio/Monitor Input:

1.   **Press MUS** button at Master or Room Station to
     enable that station speaker. RED Status LED lights
     up to show it is active. Any audio input, other
     Intercom conversations, are heard thru speaker.
     Received Intercom Page overrides any audio for the
     duration of the conversation.
2.   **Press MUS** again to turn off

Monitor a Room Station

1.   **Press MON** button at the Master or any Room
     Station to enable that station's speaker microphone.
     GREEN Status LED lights up to indicate the room is
     being monitored. All Stations where MUS is active
     (RED STATUS LED lights up) can hear audio from the monitored
     location(s). Multiple Stations can be monitored simultaneously.
2.   **Press MON** again to turn off.

Quick Start Guide: Music & Audio

NOTE: VMC1 does not distinguish between audio from a room being monitored and audio from the tuner. If a room is to be monitored, it is recommended that the tuner be turned off.

Set Volume Level at Master Station
To change the speaker volume at the Master Station:
1. Turn Radio ON to provide an audio source
2. Press MUS button to activate speaker at the Master Station
3. Press Volume + (plus) or Volume – (minus) buttons to adjust level

Setting Volume Levels at Room Stations:
To change the speaker volume at any Room Station:
1. Press the Volume + or Volume – buttons to adjust level
Room station will emit a steady tone increasing or decreasing in level depending on the button being pressed.
This tone eliminates the need to have an audio source active at the Master Station while setting the desired volume level.

___ (lower)   + (higher)
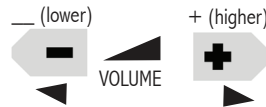
VOLUME

PLUS + & MINUS -

Your installer may disable this tone at each room station, however doing so will require an active audio source at the Master Unit to set the volume levels. If this is disabled, follow the steps under Setting the Volume Level at the Master Station to set the volume levels at the Room Stations.

Privacy
Press PRIV button to disable microphone
This prevents any audio from transmitting. The Station continues to receive calls, however.

Point-To-Point and Whole House pages.
Page any Station where Privacy is active by following the Room-To-Room or Whole House Paging instructions.

Answer Calls in Privacy Mode:
1. **Press and release PRIV button** to speak. Station now functions normally.
2. **Press and release the PRIV button again** to end conversation. Station remains in Privacy mode until disabled.
3. **Press the PRIV button** to disable Privacy Mode.

4

Turn Audio Off
VOLUME buttons at each station control the audio volume for that station however some audio will still be heard even with the volume adjusted to minimum.

To turn Audio OFF at any station:
Press and hold the MUS button.
Red light begins to flash slowly.

To turn the Audio ON,
Press the MUS button. Red light turns off.

Radio Operation
Tune Radio
1. **Press POWER button** at the master station to turn the radio on.
2. **Press BAND button** to select AM or FM.
3. **Press DOWN & UP buttons** to tune the desired radio frequency.

Store Radio Stations
VMC1 saves up to ten AM and ten FM stations.
1. **Press Band** to select AM or FM
2. **Press and release MEM button**
3. **Press and release the radio station** channel. For locations 1 to 5, simply press that button.
4. Press and release the 5+ button and then select a button from 1 to 5 to select location 6 to 10 For example pressing 5+ and 1 will save the station in location 6.
5. **Press MEM** to store the radio station in the selected location

Recall Stored Radio Station
1. **Press BAND** button to select AM or FM
2. To recall locations 1 through 5, press the desired location
3. To recall locations 6 through 10, press and release 5+
4. Immediate press a button from 1 to 5 corresponding to the desired location. Pressing 1 will recall location 6, pressing 2 will recall location 7 and so on.
5. **Press ME-UP** to scroll through all 10 stored locations. This scrolls the stored locations and rolls back to number 1 when 10 is reached

Set Radio Alarm / Auto On Off
1. With the time displayed, **press and hold the ALARM** button. Display changes from current time to alarm time with the minutes blinking

2. Use the DOWN and UP buttons to adjust the desired minutes for the alarm operation
3. Press the ALARM button again to switch to hours. The Hours will begin to blink
4. Use the DOWN and UP buttons to adjust the desired hour for the alarm to activate
5. Press the ALARM button again. The clock display will indicate the alarm status; ON or OFF
6. Press DOWN or UP to toggle between ON and OFF
7. Press ALARM to exit programming
8. If the Tuner is not selected, AUX followed by INPUT
9. Activate MUS at all Stations where the Radio Alarm to be heard

When the Alarm is on, the clock will display a large "O" on the far right of the display.

At the designated time the Master will turn on the tuner at the designated alarm time. Only those rooms where MUS is active will the music be heard.

If the Radio is on and the selected Alarm time is reached, the Radio will turn off.

Radio Filter
To reduce background noise or radio interference on the radio, the Master Station is equipped with a frequency noise filter to adjust or reduce treble.

Press AUX button followed by number 4 button at Master to activate the filter. The Radio Filter Led will illuminate when the filter is turned on. To disable the filter, **Press AUX followed by the 4 button again.**
NOTE: Filter only affects audio from the AM/FM radio.

Enable Aux Music
To enable the Aux music there is a 3.5mm input jack on the Master Station as the audio source:

1. **Press and release AUX**
2. **Press and release INPUT**

Green AUX INPUT LED lights up and then Green TUNER LED will turn off. This overrides the Radio as the source to all Stations with MUS activated. To revert to Radio input, simply repeat steps 1 and 2 .

Master Station Video Display Operation

To see the camera view for any of the three attached cameras on the Master Station:

1. Press AUX followed by the desired video source
2. Press 5 for VID1,
3. 6 for VID2
4. 7 for VID3

The image remains on the Master Station display for 40 minutes, at which time the display will turn off.

NOTE: This will not affect the VIDEO OUT signal.

To change the view:
• Press AUX followed by the desired video source button.

To turn off the display:
• Press AUX followed by the active video source.

If a Video Door Station chime is activated, the Master Station Video display is active, that door station camera will display on the Master Station video display for 20 seconds then revert to the previously selected view.

Video Out Control

From any room station, you can select a a video source to output to VIDEO OUT. This video can be viewed from any TV in the house. This cannot be done from the Master Station.

To select a source:

1. Press AUX 5 for Video Source 1
2. AUX 6 for Video Source 2
3. AUX 7 for Video Source

If a video door chime is activated, the Video out switches to the Door camera for a preprogrammed period of time. To turn off the video source, press AUX (active video source)

NightStand Station – Audio Input

The NightStand Station can be used as a stand-alone MP3 player/ smartphone speaker.

To listen to your auxiliary audio device:

1. Plug the appropriate cable for the selected audio device fitted with a 3.5mm stereo plug at one end into the Audio Input Socket at the bottom of the NightStand Station
2. Plug the other end of the cable into an MP3 player or smartphone
3. Switch Audio Source Selector at the bottom of the NightStand Station toward the center of the Station.
4. Select Music mode on the NightStand Station by pressing the MUS button
5. Ensure that the MP3 player or smartphone is turned on and playing
6. With the volume of the NightStand Station set to the normal level for communication, adjust the output volume on the MP3 player or smartphone so the volume from the NightStand Station is at the desired level

NOTE: With the switch positioned towards the center of the Station, the NightStand Station will not play any music from the Master Station or any audio from Monitored Stations. All other functions will continue to function normally.

Help Menu

The HELP MENU summarizes the 2nd function of certain keypad buttons in conjunction with the AUX button.

1. Press and release the AUX button twice to view the help menu
2. Press the VOLUME + and – buttons to navigate between pages
3. Press CLEAR to exit the menu

NOTE: See P.2 of Help menu to view the second function of certain keypad buttons in conjunction with the '7' button (Applicable to Double Digit format Only)

Optional Functions

The VMC1 Security Intercom is equipped with functions that require additional accessories. Ask you installer if these functions are enabled at your installation.

Gate/Door Status LED

This RED LED on the Master station may be configured to indicate if a door or gate is open or closed.

Door Release

The VMC1 Security Intercom System supports up to three remote electronic door release mechanisms.

To activate a door release:
1. Press the Door Chime button at a Video Door Station. The RED Status LED blinks at all Stations indicating an active Page
2. Press and hold DOOR button at any interior Station to speak to the visitor.
3. Release to listen: Green Status LED lights at that station to indicate an active microphone.
4. Release the DOOR button and light goes off.

NOTE: No other Stations can communicate once the door is answered by another Station
5. The visitor responds hands free
6. Press LOCK button to activate electronic door release.
   Door lock remains open for four (4) seconds, and then locks.

NOTE: Press LOCK again to reopen as long as the communication is active
Only the responding Station can activate the door release, preventing accidental door opening when pressing LOCK button

Home Automation

VMC1 Security Intercom System supports two 3-Control Output switches for AUX Output Operation:
• Remotely turn on lights
• Trigger an alert on an alarm panel
• Activate environmental controls

With AUX Output Operations, homeowners can activate home automation functions using the following controls:

Single Digit
• Press AUX
• Followed by button 1 for AUX 1 or button 2 for AUX2.

Double Digit
• Press 7
• Followed by button 1 for AUX 1 or 2 for AUX 2

Master Station

The VMC 1 Master Station Console is the central unit for the Video Intercom system and has a video screen to monitor any door equipped with a camera. From the Master Unit, users can program music, add auxiliary devices like MP3 players and computers to enhance functions, and speak to visitors ringing the doorbell as well as see them.

Initial Power-Up
When you power-up, the master station displays a blue welcome screen showing the applicable software version.
1.   Press CLEAR* to clear screen

Enter Program Mode

2.   Press PRIV and MON buttons* simultaneously.

GENERAL OPTIONS menu is displayed.

3.   Navigate in PROGRAM MODE
4.   Press plus or minus buttons* to navigate up or down
5.   Press up or down keys* to alter value
6.   Use PREV/NEXT MENU to navigate between menus

1*

2*

4*

5*

4
FILTER

LOCK
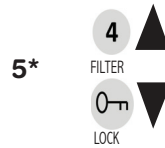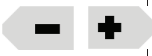
Programming Steps
To program your VMC1 system, please refer to the Finish Out Guide that came with your installation package.

Master Station Diagram
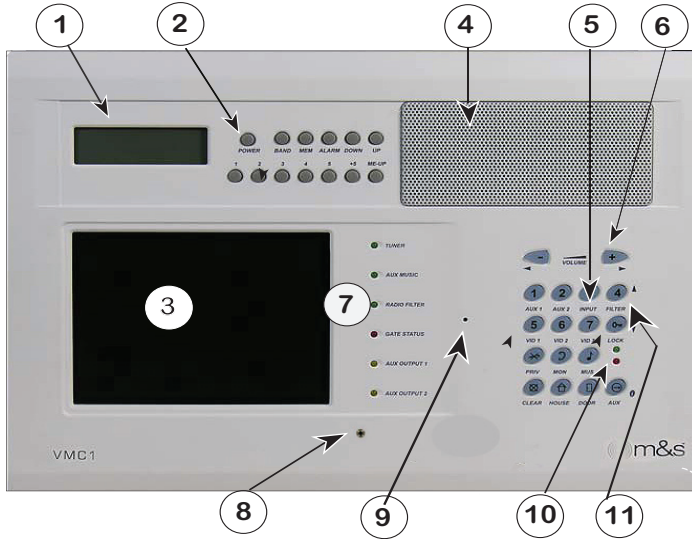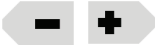

Table 1 Master Station Functions

Key	Description	Button	Primary Function	Aux Function
1	Display for Clock Radio	Clock Radio Keypad	Shows Time	Shows Radio Station
2	Clock Radio Keypad	Band	Switch AM/FM	
3	5.6 Color LCD Video screen	5,6,7 VID 1,2,3	Displays Video	Displays Door Video Cam
4	Speaker	Volume Keys (See#6)	Radio Output	Monitored Room Output
5	Intercom Keypad	See Table 2		
6	Volume controls		Plus/Minus keypad buttons	
7	LED Indicator Lights	See Table 3		
8	Audio Jack input		Mp3/iPod	
9	MICROPHONE	MON	Green LED	
10	LED Status Lights	Green- Talk/ Red - Busy		
11	Up/Down Arrow	4 FILTER / LOCK	Navigate thru menu	

Intercom Keypad

Buttons/Icons	Table 2 Intercom Keypad Function		
	Keys	Primary Function	Aux Function
− +	Volume Control (L) Low to (M) Medium to (H) High	Sets volume at Master for Radio and Intercom	Program Mode
Number Keys	1-7	Station ID	
⊖	Aux 1		Auxilliary Function
	Aux 2		
4 FILTER ▲	Input		
	Filter		Arrow Up
LOCK ▼	LOCK	Unlocks Door	Arrow Down
✂	PRIV	Privacy control	
☽	MON	Monitor	
♪	MUS	Music	
⊗	CLEAR	Clears intercom	Exit Program Mode
⌂	HOUSE	Whole House Page	
▯	DOOR	Talk to Door	
⊖	AUX	Switches AUX on/off	

LED Lights (Light emitting Diodes) indicate status or activity by alerting user with
ON/OFF functions, blinking or flashing to indicate active status, and auxiliary music sources are active. They are the status lights for the system and are these colors when not functioning:

| Tuner - Green |
| Aux Music - Green |
| Radio Filter- Green |
| Door Status - Red |
| Aux 1 - Yellow |
| Aux 2 - Yellow |
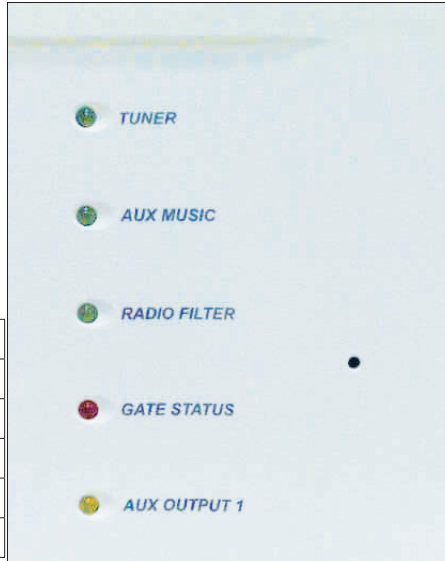
Table 3 LED Indicator Lights

Master Station	LED LIGHT	Function
TUNER	Steady Green	Radio Source Selected
AUX MUSIC	Steady Green	Auxiliary music input source selected
RADIO FILTER	Steady Green	Radio filter on
DOOR STATUS	Steady Red	Door is open
AUX OUTPUT 1	Steady Yellow	Auxiliary relay 1 activated
AUX OUTPUT 1	Steady Yellow	Auxiliary relay 2 activated
Master & Room Stations		
Green Status Light	Blinking/flashing	Privacy - Microphone Muted
Green Status Light	Steady	Microphone active; monitoring ON
Red Status light	Blinking	Privacy - Microphone Muted
Red Status light	Steady	Audio source playing/ Intercom function active

Limited Warranty

2-Year Limited Warranty

Linear LLC warrants these products to be free of defects for 2 years. The warranty period begins on either (a) the date of purchase or installation date of this product or (b) the date of closing on a new residence in which this product was originally installed. The warranty extends to the original user of the product and to each subsequent owner of the product during the term of the warranty. Linear LLC will repair or replace, at its option, parts and materials at no charge. Parts supplied under this warranty may be new or rebuilt at the option of Linear LLC.

If during the warranty period the product appears to have a defect, please call your local dealer or installer prior to dismantling. Dismantling the product prior to calling our service number may void the warranty. Before returning any product to Linear LLC, **contact your local dealer or distributor.** Linear LLC will return the repaired product freight prepaid within the continental United States. **There are no obligations or liabilities on the part of Linear LLC for consequential damages arising out of or in connection with use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation, or reinstallation.**

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