

Video Intercom System Multi-Tenant/MT-Series (2017)



Installation Manual and Programming Guide

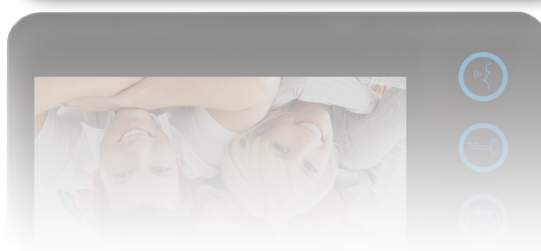


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Using Your Intercom

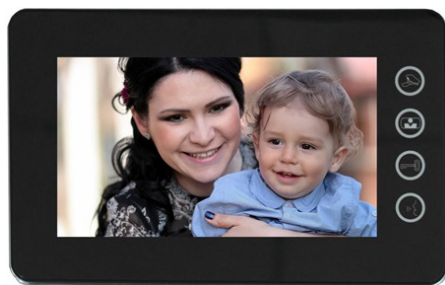
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Getting Started

Thank you for choosing the BEC Video Intercom System! BEC is proud to introduce the MT-Series - our recently updated 2-wire system, providing a straightforward installation, and a simple, yet intuitive user experience.

This manual includes installation steps, programming instructions, and wiring diagrams. Please read all instructions in this manual carefully, and check all components before installing them in the building. We recommend installing and testing one component at a time (ie. room stations) making it easier to detect a potential error before completion.

Attached at the end of this installation section is a detachable End-User manual. Feel free to detach the page, make copies, and distribute to your tenants for their reference.



BEC Room Monitor - MT Series
Available in 5", 7", and 10"
in Black or White



18-2 Wire Req'd



MT-801R

MT-812

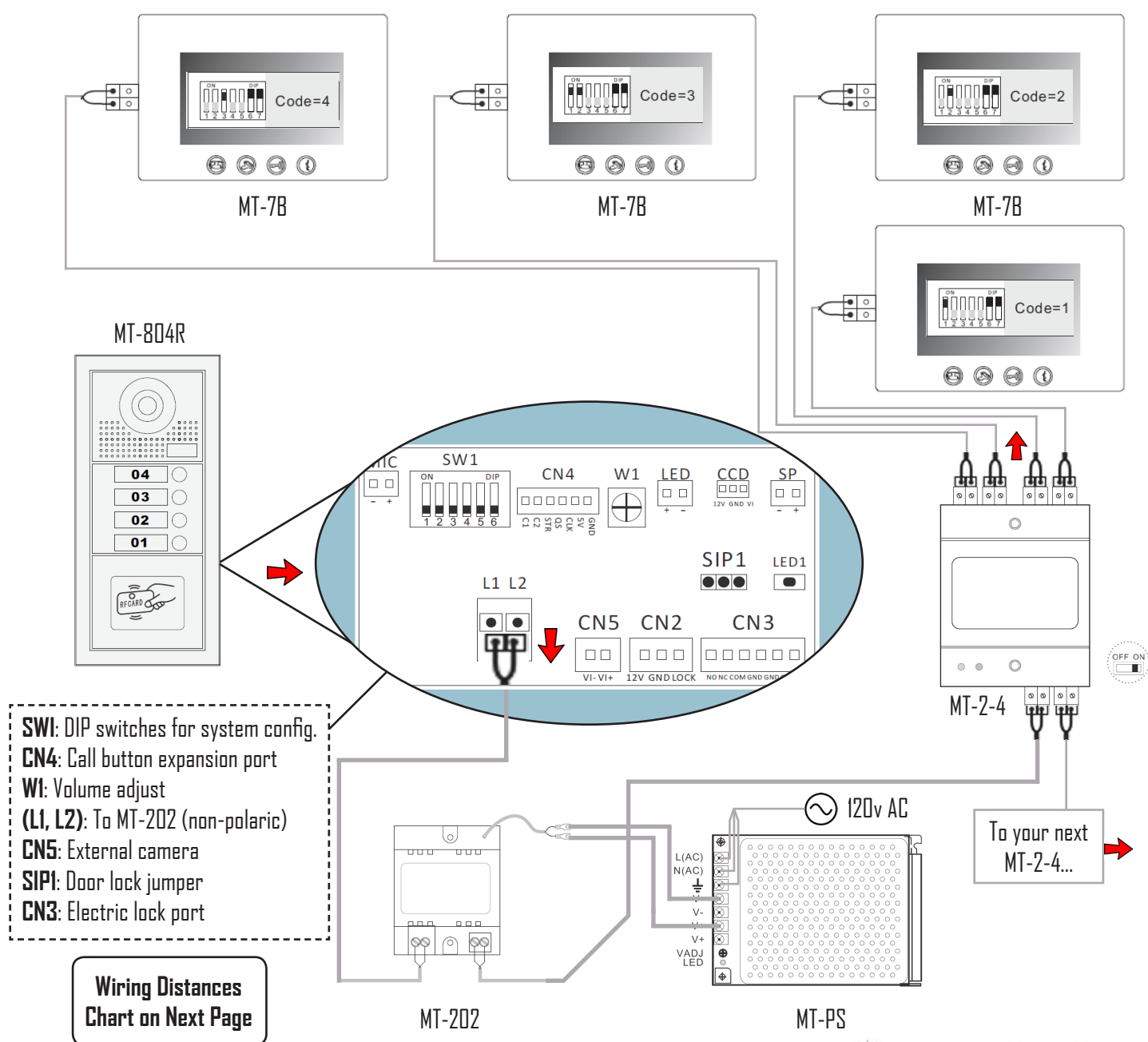
MT-816EX

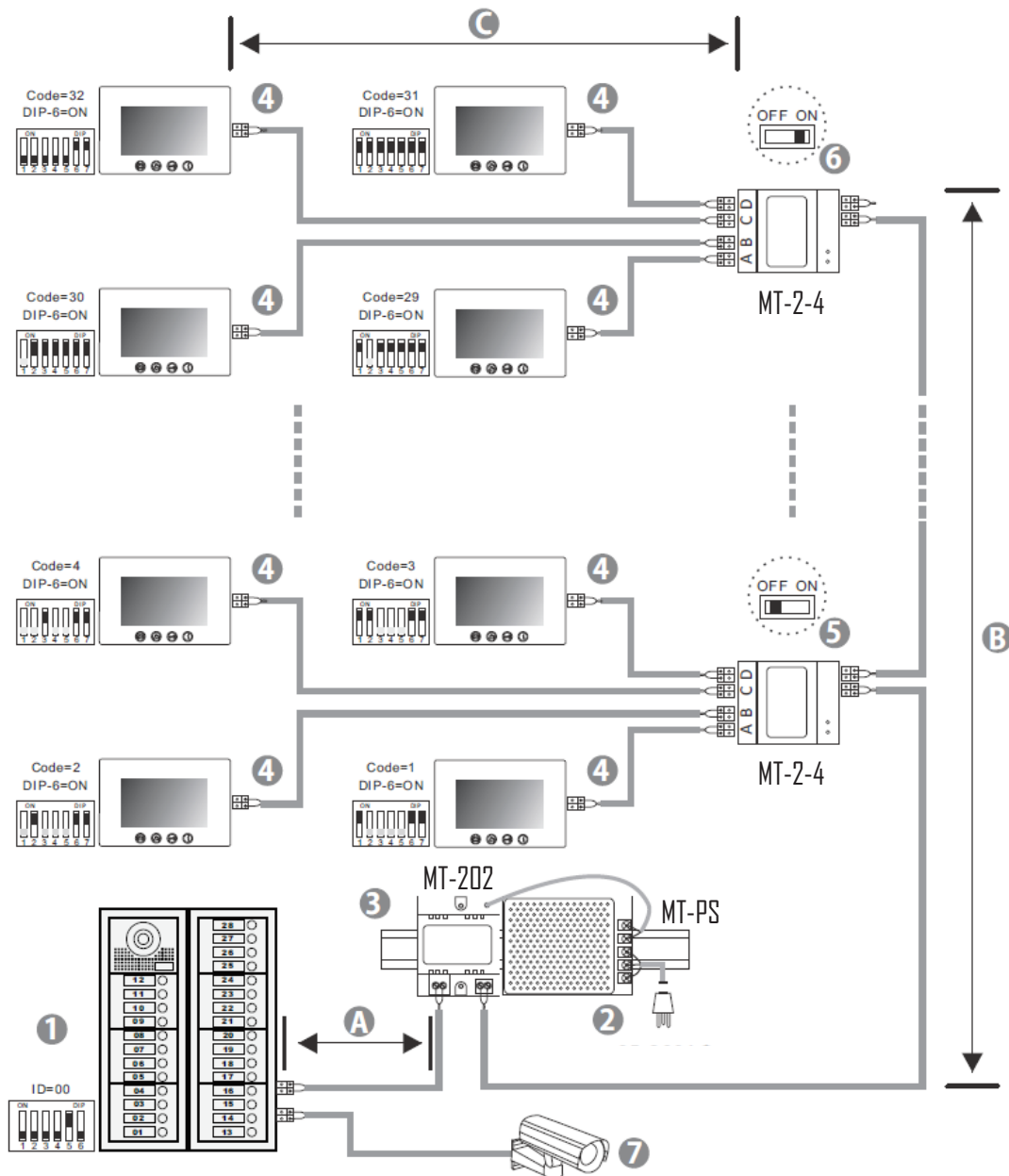
Set-Up/Installation

Wiring

Below is a sample four-monitor, single-entry wiring diagram using minimum 18-awg, unshielded, stranded wire. Please take careful note of the monitor bit-codes.

The diagram on the next page shows a 32-monitor configuration with an additional camera (note: 32 monitors is the max no. of stations). Take note of the distance chart at the bottom of the page to ensure your wire distances are under the listed limits.





LEGEND:

- (1.) Door Station (MT-7xx/8xx) - DIP 1 + 2 should be set to 00 when there is only ONE door.
- (2.) Power Supply (MT-PS) - Must be installed side-by-side with the Power Separator.
- (3.) Power Separator (MT-202)
- (4.) Monitor (MT-7B) - Each set with their unique 5 bit-code ()
- (5.) Video Distributor (MT-2-4) - Set switch to OFF unless at the end of the line.
- (6.) Video Distributor (MT-2-4) - Switch set to ON at the end
- (7.) Extra Camera

DISTANCES

If # of Room Stations < 20

Wire Type	A	B	C
18/2	196 ft.	196 ft.	98 ft.
16/2	262 ft.	262 ft.	131 ft.

If # of Room Stations > 20

Wire Type	A	B	C
16/2	262 ft.	262 ft.	131 ft.



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Integrated Solutions

Programming

USER CODES (MONITOR BIT CODES) - Every room station must have an ID, set through the bit codes (listed right).

Bits 1-5 are used to configure the room ID;

Bit-6 is the line-terminal switch, at the LAST monitor to ON, otherwise set OFF.

Bit-7 is to turn the ringtone at the door station On/Off.

You can have a max of 3 monitors per button/code.

EXTERNAL CAMERA - Connect with CNS at the outdoor panel, at a room monitor, press and hold **Alarm** until it beeps, then press **Monitor** twice. Press **Alarm** to save and exit.

To DISABLE an extra camera, press and hold **Alarm** until it beeps, press **Monitor** once. Press **Alarm** to save and exit.

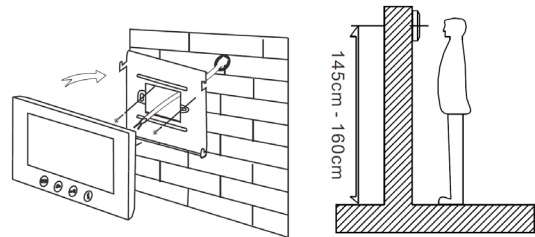
MT-2-4 - The switch on the LAST distributor in your chain must be set to ON.

ROOM-TO-ROOM CALLING - Intra-calling is available to place a voice call with one other connected monitor.

To enable, you must first set the 2-digit dial number of the monitor to call. Press and hold **Unlock** until you hear a long beep, press **Monitor** 1-9 times to assign that number, press **Unlock** to confirm.

Example - Monitor 4 wishes to call monitor 9:

[@ Monitor 4, set dial # to 09] HOLD Unlock (Beep) - Unlock x1 (assigns 0) - Monitor x 9 (assigns 9) - Unlock (enter/confirm)



Bit state	User Code	Bit state	User Code	Bit state	User Code
	Code=1		Code=12		Code=23
	Code=2		Code=13		Code=24
	Code=3		Code=14		Code=25
	Code=4		Code=15		Code=26
	Code=5		Code=16		Code=27
	Code=6		Code=17		Code=28
	Code=7		Code=18		Code=29
	Code=8		Code=19		Code=30
	Code=9		Code=20		Code=31
	Code=10		Code=21		Code=32
	Code=11		Code=22		

RF Reader

To program your fobs, swipe the master card included with your system, swipe the cards you wish to activate, then re-swipe your master card to complete. We recommended taking inventory of all key-fob ID #'s before programming, in case they're lost or stolen. You can de-program individual fobs using the available remote accessory. (Model: BE-RKC)

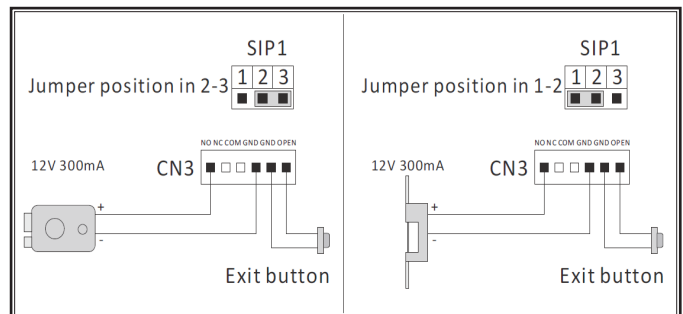
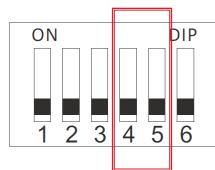
Electric Lock

The MT series has a built in timer and power for a 12v DC strike (max current = 250mA),

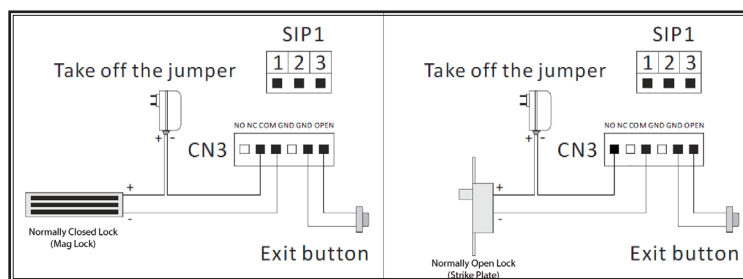
Set the jumper SIP1 set to 1-2 for a **normally closed** lock (power OFF to open), or set SIP1 to 2-3 for a **normally open** lock (power ON to open).

Adjust the timer setting with Bit-4 and Bit-5 at the outdoor station (00 = Off/Off):

00	-	1	sec.
01	-	5	sec.
10	-	10	sec.
11	-	15	sec.



NOTE: If you choose to use a lock that is anything other than a 12v DC strike, you must remove the jumper and use an external power source to supply power to your lock. See the following diagram...



Troubleshooting & FAQ's

Points to Consider

- We strongly recommend to use **stranded, unshielded** wire, 16-18 awg, 2-conductor.
- All connection points are non-polaric (+/-) with the exception of connecting the MT-202 to the Power Supply.
- Please ensure your cable lengths do not exceed the distance ratings listed in the chart on page 3 of this manual.
- The system power supply has a rating of 24v DC and should be within a +/- 2.0v range.

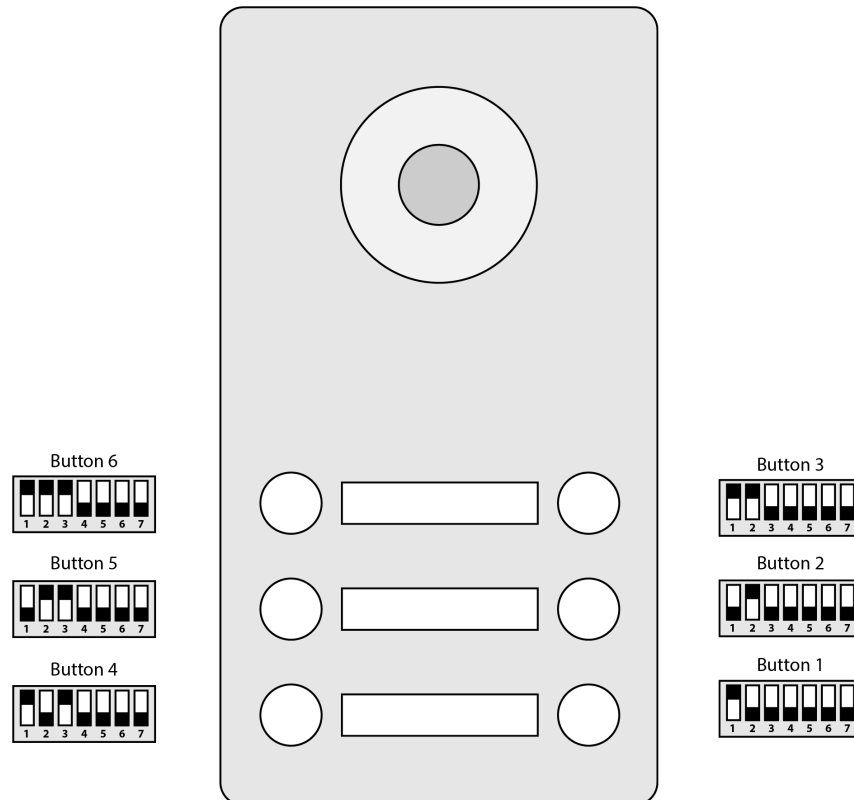
Tips/FAQ's

- Set the dip switches to the same config to have more than one monitor ring at once (max: 3 monitors)
- Use the YELLOW and RED wires for a standard, powered-to-open lock. Polarity will not matter at the lock.

Special Case: MT-706

When setting up the MT-706, six-button outdoor panel, you must program the monitors to these dip-settings in order to program the six buttons/monitors correctly - the chart on pg. 4 is not applicable. This is the only door panel that requires special configuration. See the following diagram...

MT-706 Button/Monitor Configuration



If you have questions on installation or if you run into any unforeseen circumstances while installing, please call our tech-support line at 716-689-0871 ext. 4 or toll-free at 888-556-3998.

5225 Sheridan Drive
Georgetown Square
Williamsville, NY 14221

Phone: 1-716-689-0871
Toll-Free: 1-888-556-3998
E-Mail: support@becsolutionsllc.com
<http://www.becintegrated.com>

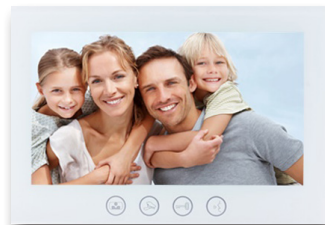




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Video Intercom Systems (MT-Series) User Guide and System Instructions



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in Black or White



Programmable
Entry Key-Fobs
Available

Getting Started

Congratulations on your new Video Intercom System! At BEC we are proud to provide secure, reliable entry solutions for your home or business. This user manual will provide answers for any operational questions you may encounter throughout your system's lifetime.

Door Entry

The outdoor panel for your system has been installed and programmed to ring your unit when the corresponding button is pressed. If your panel is equipped with an RF Card Reader, swipe the card/key-fob across the reader and the door will unlock.

Video Monitor Functions

The indoor room station has four illuminated buttons on the face and three scrolling adjusters on the edge to control Brightness, Color, and Volume.

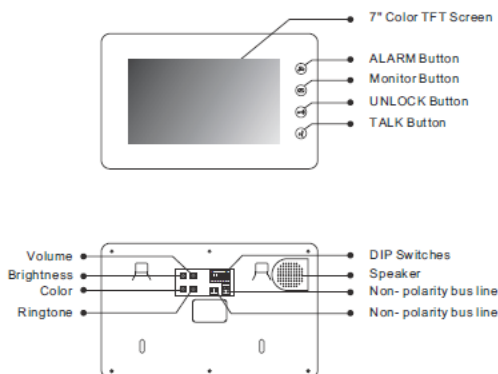
The blue illuminated buttons from left to right are **Monitor**, **Alarm**, **Unlock**, and **Talk/Listen**.

To answer an incoming call, press **Talk** to answer, then speak freely. Calls last for 90 seconds - you DO NOT have to hold talk to enable voice communication. Press talk again to end the conversation.

To **Unlock** the door, press the unlock button during a call and the door should release to allow entry.

Press **Monitor** button while in standby mode and you will be able to view the outdoor station camera. If there is an additional surveillance camera, press **Monitor** button again to switch modes. Press **Talk** twice to exit.

To change the Ringtone, press and hold **Talk** until you hear your current ringtone, then press **Alarm** to cycle through the different tones, then press **Talk** to save.



Picture Memory

If your system is equipped with the optional Picture Memory function, you will notice the additional feature controls on the side of the monitor.

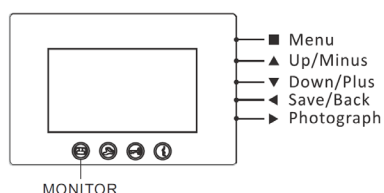
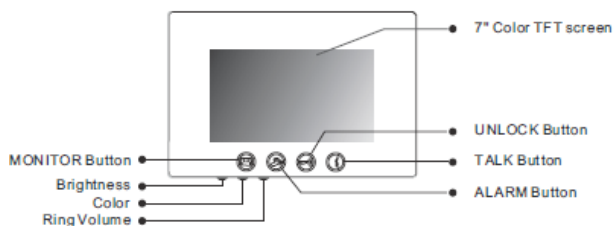
1. Setting Time - Press **Monitor**, press **Menu** twice to choose the date, then adjust the year by pressing **Up** or **Down**. Press **Menu** to move on to Month, Day, and then Time. Scroll down to **EXIT** and press **Save/Back** to complete.

2. Viewing Pictures - Press **Monitor**, then press **Up** or **Down** to view the saved photos.

3. Deleting Pictures - Press **Monitor**, press **Up** or **Down** to view the saved photos, press **Menu** to choose a photo, and press **Menu** again to delete.

4. Delete All Pictures - Press **Monitor**, press menu to scroll to "Delete All", Press **Up** to choose Yes/No, and confirm by pressing **Menu** again.

5. Manually Photograph - Press **Monitor** button, and press **Photograph** to save a picture. Max no. of saved photos is ~240.



If you have questions or if you run into any issues while using your system, please call our tech-support line at 716-689-0871 ext. 4 or toll-free at 888-556-3998.

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