

## MRS preparation requirements

### SERVER SIDE:

1. PC with Pentium 4, min 1GB memory and windows XP or higher
2. ADSL or other Internet connection to the PC with enough downlink and uplink bandwidth. (uplink bandwidth is important for outside clients)
3. Fix IP address for that PC which can be reached from outside (like web site)
4. If firewall exist 2 ports must be open for that PC server:
  - a. 12654 TCP
  - b. 12655 UDP
5. If demo is required out of the server (like customer site) laptop with internet connection can do the work, MRS software is installed and communicate to the fix server IP. (This laptop can act as server if the IP of that laptop is global and fixed.)

### UNIT SIDE:

1. 3g SIM card (data) from cellular provider
2. APN (Access Point Name) for that cellular provider (ask cellular provider)
3. User name and password for that SIM (usually username and password are empty) (ask cellular provider)
4. Connect the GSM antenna
5. Connect the GPS antenna

### CAMERAS:

1. Any analog PAL/NTSC camera can be connected to the unit
2. PTZ camera is also supported with PELCO D protocol (2 RS-485 wires are connected from the unit (T+,T-) to the camera.

### Phone:

1. Iphone client download iMRS from Appstore
2. Android client download infodraw MRS from Google store
3. with windows mobile 6.0 or windows mobile 5.0

All latest documentation can be downloading from [www.infodraw.com/dlds](http://www.infodraw.com/dlds)

## Fast Installation

### Server side preparation

1. Install "Monitor" (server) software (run the .msi file attached) (make sure the IP of the server is global and can reach from outside)
2. Run the Monitor
3. Check the automatic menu item from the session menu (it will remember the last setting)
4. Open connection screen from the session menu
5. Check the local server
6. The status bar shows "server is listening.."

### Monitor Client preparation

7. Install "Monitor client" software (run the .msi file attached) (make sure the IP of the server is global and can reach from outside)
8. Run the Monitor
9. Check the automatic menu item from the session menu (it will remember the last setting)
10. Open connection screen from the session menu
11. Add the IP of the server
12. The status bar shows "connected" if it is connected



## Unit side:

1. Make sure the SIM is not inserted
2. Insert the USB cable into the unit and a PC (XP or Higher).
3. new hardware is detected
4. point the driver to Infodraw MRS driver and install (Attached)
5. Install "MRS device config" (Attached)
6. Run "MRS device config"
7. Turn on the device
8. Once the unit is connected to the PC, parameters are loaded
9. Go to connection screen
10. Change the IP (of the server IP)
11. Change the APN (cellular provider Access Point Name)
12. Change user name and pass if necessary (usually not)
13. Save parameters (write to device) use candle key (you should see "parameter saved" in the status bar)
14. Turn off the device
15. Insert the SIM card (notch is outside)
16. Turn on the device
17. On the lower line of the unit screen you should see status of connection:
  - Ps\_attached
  - Config
  - Dialing...
  - PPP
  - "IP received from provider"

## Unit side Upgrade version:

1. Remove any SIM card and micro SD
2. Run the MRS device config
3. go to upgrade section
4. point using browse the upgrade file .ldr
5. upgrade using program button
- 6. do not interrupt during upgrade process**
- 7. Wait until upgrade progress is done, or at least 15 minutes if USB connection is gone or unit display is turned off.**
- 8. Reset unit button**

## Server side after connected units

1. All running units should connect to the server (usually unit is connecting to the server within 10-20 seconds from power on)
2. New device appears on the left side of the monitor screen
3. Drag & Drop the channel to specific window, it will start streaming video (playing...)
4. If the picture is black video is not connected (check BNC and camera..)
5. right click on the picture give you capability to change parameters like in properties
6. Double click on the picture open it for to full windows size
7. Pointing the cursor on the channel and press F2 allows changing name of channel
8. Pointing the cursor on the channel and press F3 allows configuration streaming channel with bit rate, frame rate and other parameters.
9. PTZ is supported with PELCO D protocol. Use ID=1 and 2400 baud rate. Connect 2 wires to PTZ+ and PTZ- . Point the cursor on the PTZ channel and use the ball to move the camera, save for presets etc.
10. Bit rate and frame rate are major parameters when dealing with cellular network, Bit rate can goes from 50kbs to 500kbs and higher, Frame rate can goes from 1 to 25.
11. GPS location can be viewed over Google map
12. All devices icons can be viewed using system location (under my monitor)
13. Specific device location can be viewed and automatic centered using for specific device location
14. Each device icon can be open for live streaming by clicking on the icon and select the desired channel

**Recommendation:** Start with 200/250kbs and 10fps, the system automatically try to reach this target. If you see that it is reducing these parameters automatically you can reduce the target to help the system (F3 while pointing the channel).

## Other clients

1. Internet browser (flash client)

Open: `http://"server ip":12654/videostreams.html`

This will let you view the channel video of any connected device using adobe flash