

Make your analog system smart phone compatible!!

Watch from the comforts of home or take your work with you and monitor your system from your smart phone.

With the DVR & data radio kit you can have it all.

This kits includes the data radio, 1 receiver, IP support and DVR

- ◆ \$550 for 2.4ghz system
- ◆ \$600 for 5.8ghz system



The cover of the instruction manual features a close-up, black and white photograph of a cow's head. The cow's eye is visible, and its fur has a detailed texture. Overlaid on the bottom right of the image is a dark, semi-circular graphic with white, radiating lines, resembling a sunburst or a fan. Below this graphic, the text "PTZ-IR COWCAM" is written in large, bold, white, sans-serif capital letters. Underneath that, "instruction manual" is written in a smaller, white, lowercase sans-serif font. At the bottom of the cover, the "Allen Leigh Security & Communications" logo is displayed, consisting of a stylized sunburst icon to the left of the company name. The website address "www.allenleigh.ca" is printed in white at the very bottom right.

PTZ-IR COWCAM

instruction manual



Thank you for purchasing your PTZ-IR Livestock Monitoring System (Cow Cam) from us. You will get many years of use from your new wireless video system, it comes with a one-year warranty on parts and labor, and we guarantee it to work when installed according to our assessment.

The system consists of two physical parts, a transmitting point, and a receiving point.

*****You will want to assemble the system in your house first before you install it permanently on your barn or shed, this is to ensure that you have your TV or VCR setup properly, and you understand the proper connections.*****

On the end where the camera will be located (the barn) is also where the transmitter box and power supply box will be mounted (on the outside of the building facing the location where the receiver will be located) The transmitter and camera will be connected together with the camera cable. The power box will also be connected to the camera. The receiver will be located at the viewing location (your house) and connected to your TV with the RCA cables. The camera controller will also be located at the house.

The power supply box will come with a cord that gets plugged into the transmitter at the barn, and a cord which provides power for the camera.

If you purchased the optional directional High Gain Antenna to get better distance, you will want to use the same guide lines as above. You will need to remove the rubber tube antenna and replace it with the coax from the High Gain Antenna. Please be aware that the base of the 6DB antenna is Magnetic so DO NOT mount it on top of or next to the TV or Tapes, as it will cause discoloration and possible damage to the TV and tapes. Make sure that the antenna is pointing towards the transmitter or receiver (if it is on the receiver then point it to the transmitter and visa versa).



There are a few things that will interfere with your signal on your Wireless Livestock System one for sure is the microwave oven when it is in use, and we have also experienced problems with any other 2.4 GHz devices like cordless telephones, wireless routers, wireless internet, Bluetooth and some gaming systems.

To determine which one it is you may need to unplug each one by one to verify which is causing the interference

If you have any problems please refer to our website for a step by step troubleshooting chart www.cowcam.ca this will take you directly to the support page:

If you have tried these steps and still unable to fix the problem please give us a call to speak to our helpdesk;

Office 204-728-8878 or toll free 1-866-289-8164



1. 1 - Transmitter Box (Cream Colored/ Grey Box)
2. 1 - Power Supply box (Grey Box)
3. 2 -30 ft. Power Cables (red with black & Orange ends)
4. 1 - 6 pin 30 ft. PTZ Camera Cable
5. 1 - RCA Cable (not shown in picture)
6. 1 - Home Receiver
7. 1 - PTZ-IR Cam Manual
8. 1 - PTZ Camera (Large/ Mini)
9. 1 - Camera Controller
10. PTZ Installation DVD (not show in picture)

Transmitter Information



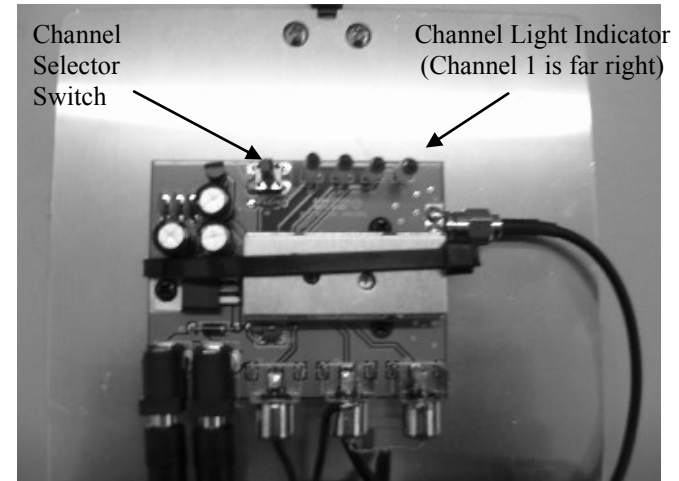
If you unscrew the 4 Philips screws on the front of the transmitter you will be able to take the cover off. Please do not overtighten them as they will break.

Inside of the transmitter box you will find a LCD display this will tell you what channel this particular transmitter is on, it can be switched to one of seven frequencies. You can change the channels by using a small point pen or pin. If you push the channel selector once, it will go to channel two, push it again and it will go to channel 3, and so forth.

Be sure not to have more than one transmitter set on the same channel, i.e. channel one (you won't damage anything but the video picture at the house will look very scrambled). Ensure that the channel you have the transmitter set on matches the channel on the receiver at the house.

Please note that these instructions are for the 5.8ghz system if you have the 2.4 ghz system please refer to pages 16 & 17.

There is no on/off switch for the transmitter or camera; the only way to turn it off is to unplug the unit.

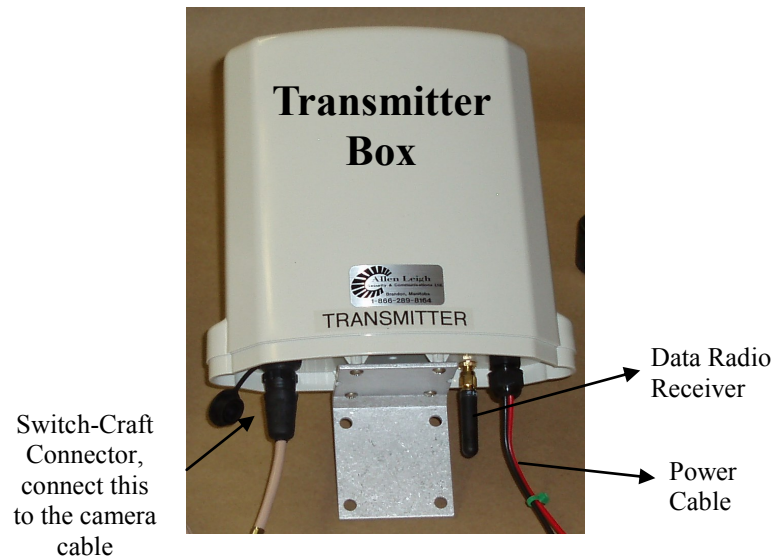


There is no on/off switch for the transmitter or camera; the only way to turn it off is to unplug the unit.

We strongly recommend that you unplug the unit after your calving season is complete, damage may occur during thunderstorms and extremely high winds due to power lines clashing. You will know that the unit is powered on when the channel indicator is lit inside the transmitter box.

There is a mounting bracket that is sent with the unit so you can mount it to a post or pole outside, or you can use the holes to drill it to an outside wall. Install it so it fits tightly to the whatever you mount it to. Drill a hole large enough for the Switch-Craft connector to go through to the barn wall or wherever you want to mount your camera. Attach the male camera cable end to the female end on the transmitter box. Caution: ensure the cable does not get cut by any sharp edges from the hole you cut. Also be sure to aim the transmitter so that it points towards where the receiver is located. The transmitter should be mounted in the vertical position with the mounting hardware on the bottom with the transmitter sticker facing the receiver location.

Transmitter Information



If you unscrew the 2 Phillips screws on the bottom of the transmitter you will be able to take the cover off.

Inside of the transmitter box you will find a series of lights (4) on a small board, these tell you what channel this particular transmitter is on, it can be switched to one of four frequencies. The switch is a small round rod on a small square switch usually labeled as SW1 on the upper left side of the switch. If you push the channel selector (Black plastic rod) once, it will go to channel two, push it again and it will go to ch 3, and so forth.

Be sure not to have more than one transmitter set on the same channel, i.e. channel one (you won't damage anything but the video picture at the house will look very scrambled). If your unit appears to have more than 4 channels then simply unplug the transmitter and hold down the channel button while you plug it back in and release within 5 seconds. Ensure that the channel you have the transmitter set on matches the channel on the receiver at the house.



We strongly recommend that you unplug the unit after your calving season is complete, damage may occur during thunderstorms and extremely high winds due to power lines clashing. You will know that the unit is powered on when the channel indicator is lit inside the transmitter box.

There is a mounting bracket that is sent with the unit so you can mount it to a post or pole outside, or you can use the holes to drill it to an outside wall. Install it so it fits tightly to the whatever you mount it to. Drill a hole large enough for the Switch-Craft connector to go through to the barn wall or wherever you want to mount your camera. Attach the male camera cable end to the female end on the transmitter box. Caution: ensure the cable does not get cut by any sharp edges

Basic Setup Instructions:

First, you will want to make sure that you have all the equipment. Once you have verified that you have it all, we will begin the ***in home assembly***, make sure you know how to set it up in the house before you try to install it outside.

Indoor Equipment

Begin by plugging the power supply for the receiver into the back of the receiver (IN port). Plug the Yellow RCA cable into (video) the back of the receiver and the other end will plug into your T.V, VCR, or DVR (into the yellow video jack). (The standard channel select setting for the receiver is #1). You only need to connect the audio RCA cables (white/red) if you purchased the optional Audio modification box.

Screw the mini bud antennae to the back of the PTZ controller, finger tight. Connect the power supply to the PTZ camera controller. This will be the only connection to the controller that is required—the unit operates wirelessly.



Please note that the controller is not connected to video it controls camera movement only.

The signal to operate the movement of the camera will be sent wirelessly via the antennae on the PTZ controller.

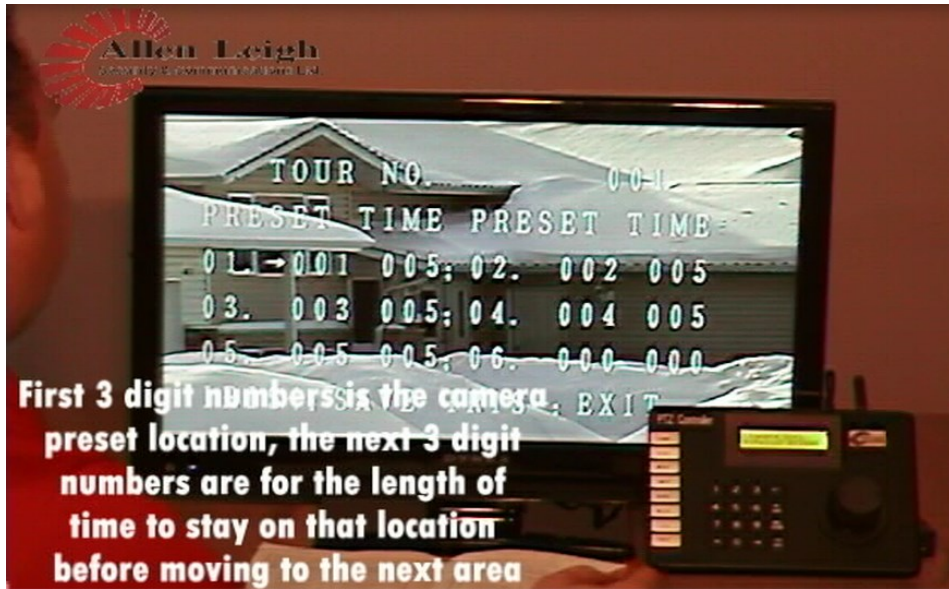
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Thank You and Enjoy!
Allen Leigh Security &
Communications Team

**Please refer to the next pages if you have purchased a 2.4ghz system.



If you see the above screen information displayed you have made the correct option choices. The numbers may look a bit confusing, hopefully the following explanation helps.

Where you see 01. → 001 005

1. 01. represents the start of the Tour (there are 12 tour locations)
2. 001 represents the camera pre-set location
3. 005 is the length of time to stay on that pre-set point in seconds

Use the joystick to move the arrow to the number that you want to change, when you are on the number you want to change use the “NEAR” and “FAR” buttons to increase or decrease the number.

You can set the tour to start with any one of your pre-set locations, and have it stay on for the length of time you want in seconds. You can have up to 12 tour locations set if you like.

Once you have the tour set to your liking, press the “OPEN” button (also known as Iris +) to save and then Press “CLOSE” button to exit.

**To View your tour on the Controller keyboard press “142”
“CALL”**

Outdoor Equipment

Now that you have the receiver and controller set up, we will now set up the outdoor equipment. Starting with the camera, plug the camera cable into the 6-pin male connector end on the camera. The other end of the camera cable will be connected to the bottom of the transmitter where there is a 6-pin female connector that it will plug into.

Next take the power cable from the power supply box with orange end and plug it into the matching plug on the camera. An optional extension cable may be supplied. The cable with the black end from the power supply box will get plugged into the matching plug on the transmitter.

Both of the power cables will get plugged into the grey power supply box. Making sure that the color coordinated cables are matched Plug in the power supply box to a 110V outlet and the camera will begin its startup routine. During which time it will display on the TV screen its information such as its address, baud rate, and protocol.

Once you plug in the controller, make sure that you set the PTZ controller’s address to match that of the camera. Normally the camera and controller addresses will be 01 (001), but that is not always so.

Make sure that the controller and camera are on the same address, take note of what the address of the camera is from the TV screen when it does its startup routine, and then enter in that address number on the keypad of the PTZ Controller followed by the CAM button. (Eg Dome ID: 001, on the keypad of the controller press: 01 on the PTZ controller then CAM button. That will set the address on the keypad to 01 and you will be able to control the camera with address 01.)

Outdoor Assembly:

Step 1.

- Connect everything at the house first to make sure everything is working fine. If not please refer to our website for step-by-step troubleshooting (www.cowcam.ca)
- Once you have tested everything inside, you can leave the receiver and joystick controller assembled and powered up. Everything else is going outside.

Step 2.

- Mount the camera at the ideal position to a firm and solid surface.

Step 3.

- Mount the PTZ transmitter at the ideal location to get the best signal back to the house. **Make sure it is facing towards the house, with the connections on the bottom.**

Step 4.

- Mount power box and plug it into 110v AC and run the power cables to the PTZ camera and transmitter.

Step 5.

- Run the camera cable (with the 6 pins on the connectors) between the transmitter box and the camera. The male end of the cable connects to the transmitter and the female end connects to the camera.

Step 6.

- Go back to the house and make sure that the camera number is still displayed on the joystick screen. You should now be able to control the camera. If not, reposition the PTZ controller to get it up a bit higher, to clear any obstacles.
- Make note of the address number on the screen when it does its startup. This is the number that should be displayed on the joystick controller. If it does not, enter the 2 digit number and press “CAM” on the joystick controller.

Creating Preset Location Points

1. Position your camera on the point of interest that you want to view, you can zoom in/out on the object location.
2. Once you have your location determined, on the Controller keypad press “PRESET” then the location number you want to create (such as 1, 2,3, etc) and “PRESET” button again
3. Continue the above step for each separate location you want to create (giving it its own number preset 1-90)
4. There is room to create up to 90 locations ranging from #1 to #90
5. To check your preset locations press the preset number on the keypad (for that location) and then CALL button. An example sequence would be “3” “CALL” which would move the camera to the preset location you made called #3.

To Create a Tour of your Preset Locations

When you have all of your preset location made you can use this next step to view them automatically in whatever order you want in a continuous order.

1. On the Keyboard PTZ Controller, press “95” “CALL” to get into the PTZ cameras on-screen display
2. When you see the on-screen display on your TV, use the joystick (push down) to scroll down to #3 Auto-Run, then press the “NEAR” button to enter (NEAR button is on the left 3 from the top)
3. On the next screen use the joystick to go down to #3 TOUR, and press the “NEAR” button to enter
4. On the next screen use the joystick to go down to #2 SET-UP, and press the “NEAR” button to enter
5. You will now be in the setup screen to setup up the Tours.

See next page for a snapshot of what the screen will look like if you have done the above steps correctly!

Programming / Camera Operations

Zoom in / Zoom out

1. Turn the joystick controller knob counter clockwise to zoom out and clockwise to zoom in
2. Or you can use the “TELE” button (top left side of controller) to zoom in, and “WIDE” button to zoom out

Moving Camera

To move the camera you push the joystick left to move to left and right to move the camera to the right. The harder you push the joystick, the faster the camera moves, a slight push moves the camera slowly.

MENU button on Controller

The “MENU” button on the controller, is for advanced controller option such as Keypad light, baud rate, and tones. Only use this function if you are an advanced user!

How to make an Auto Scan

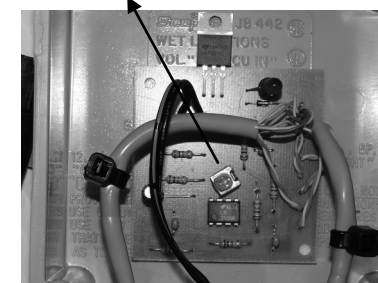
1. Move your camera to the furthest left position that you want the camera to scan to
2. On controller keyboard press “130” and then the “CALL” button (your left limiter is now set)
3. Move the joystick to position the camera to the furthest right location you want to scan to
4. On controller keyboard press “131” and then the “CALL” button (your right limiter is now set)
5. To view the Auto Scan that you set press either “132” , “133” or “134” and then “CALL” button to start scan
132 = Low Speed scan
133 = Medium Speed Scan
134 = High Speed Scan

To Stop the Auto Scan, just move the joystick, to restart use the appropriate speed number and CALL button again

If the Audio Modification Box option was purchased, you will have two cable ends, they are setup so that the camera end will fit into one side and the camera cable into the other the connectors, the connectors on the audio box are opposites. The audio modification box is designed to be mounted onto the wall it has mounting holes for it. You can mount the audio mod either right before the camera or the transmitter box which ever works best for you. On the inside of the Audio device you will see a small orange pot, this is how you would adjust your audio sensitivity, turning to the right increases sensitivity and to the left decreases the sensitivity.



Audio Sensitivity Control



Metal siding will not allow a strong signal into the home if the receiver is placed behind it, so you will want to try to place the receiver near a window location. You may have to re-position the antenna angle on the receiver in order to find the best signal with the basic models you may find that you have to move the receiver up or down, trial and error will get you the best signal.

Picture Problems

If you do not get a picture right away, upon your completing your connection you may have to unplug and plug the transmitter back in, this does a system reset, and usually rectifies the problem if there is no picture from the system.

If you are within Manitoba please do not forget to send one copy of your invoice back to us with your township, range and signature for Cow Cam to be PST exempt!

If you have any problems please refer to our website for a step by step troubleshooting chart www.cowcam.ca this will take you directly to the support page:

If you have tried these steps and still unable to fix the problem please give us a call to speak to our helpdesk;

****Please note for the basic system it is very important that the receiver be located on the same side of the house as the transmitter is located (you may try other locations once you have acquired your signal) preferably on the inside of the outside wall so the two units can see one another through only one wall with as little obstruction as possible.**

Trees, shrubs and hay bales do not seem to hinder the picture quality too much during the winter, trees do effect the signal once the leaves come out. You may find that you may have to adjust the antenna or the receiver unit by lifting it up for better reception.

If you have buildings or machinery in the way, it will possibly lower your picture quality, it also depends on what the buildings are made of, metal or large machinery block the signal. It is best not to have anything in the way of the signal path, we understand that you cannot move buildings so try to position the transmitter higher up above the roofline or higher than the objects in the way.

If you are placing the receiver in front of a window and you are not getting a good picture it could be due to the high energy efficiency of the window. New windows contain Argon gas or a coating that seems to block the signal, just move the receiver over from the window and you will more than likely get a signal.

We do have optional antennae's that are available as well as outdoor receivers.