

Barn Cameras



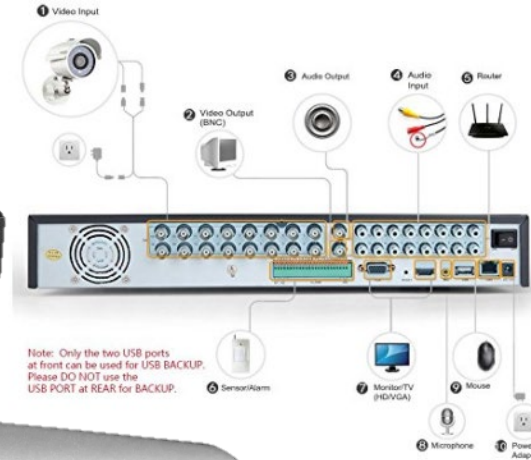
THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES

Jacci Smith

What do you need?

- DVR -“brain”
- Cameras
 - Nanny Cam?
- Cable
- Internet?
 - Router?
- Video transmitters?

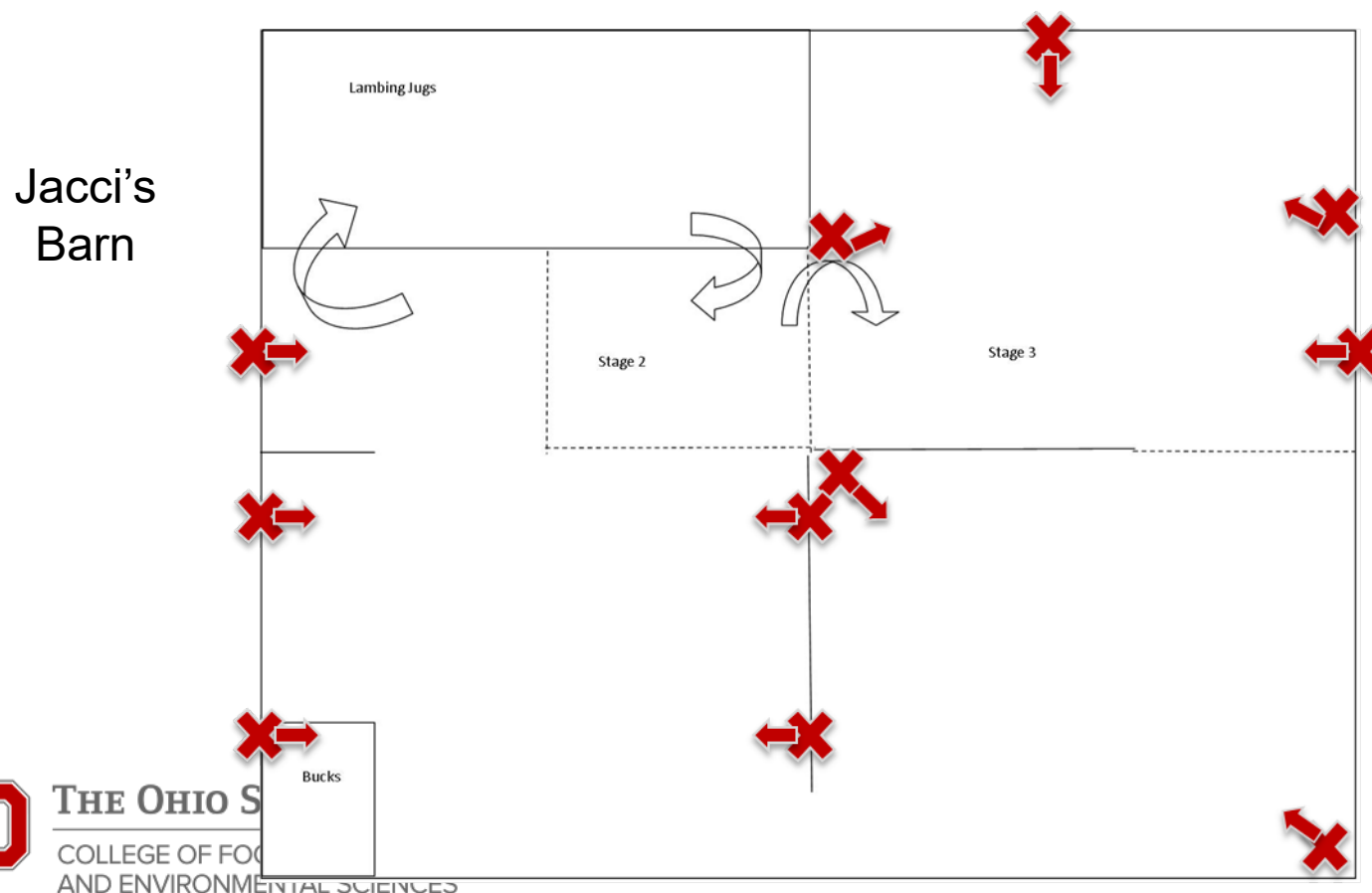


Questions to ask yourself

1. Do I want to see it on my phone (remotely)?
2. Do I have good internet Wi-Fi in my barn?
3. Do I need to record or is live stream ok?
4. Do I want audio?
5. What groups of sheep do I want to see?
6. Is there solid walls that need to be taken into account for video?

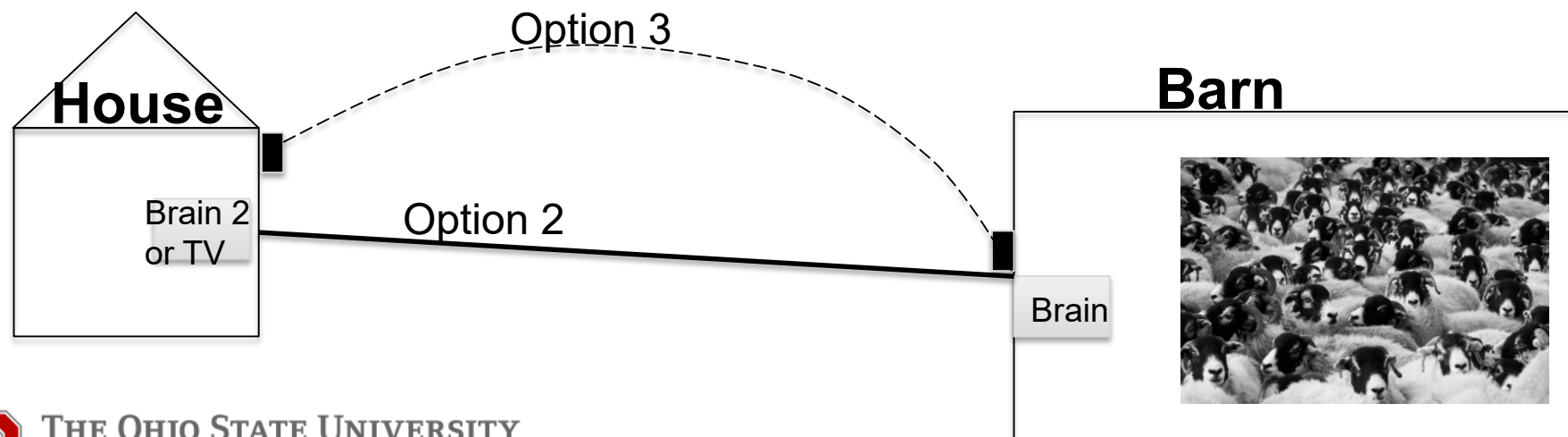
What to do?

1. Map where you want the cameras at- determine what you want to watch
2. Determine how many cameras you will need- trial and error sometimes
3. Decide where you want to house the “brain” (internet- handheld)



What next?

4. Measure length from each camera to the Brain location for cables
5. Order supplies-
 - Option 1: If internet at barn- “brain” can stay in barn, cable is just needed from cameras to brain
 - Option 2: no internet in barn- run cable from brain to house with an additional brain that has internet
 - Option 3: no internet in barn use video transmitter with an additional brain that has internet



THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES

What to buy?

Closed Circuit DVR

- If you want to view remotely be sure to buy one with internet wifi access
- Be sure to buy one with enough cameras inlets for your barn
- Decide whether or not you want to actually record or if you only are concerned with real time
 - If you are recording how much storage space do you want (HDD)
- Is audio important to you
- You will also need a monitor and a video or HDMI cable in the barn to set up, once set up should not be needed again.... Unless the power goes out



Viewing remotely? Check DVR Requirements

Need internet at DVR location

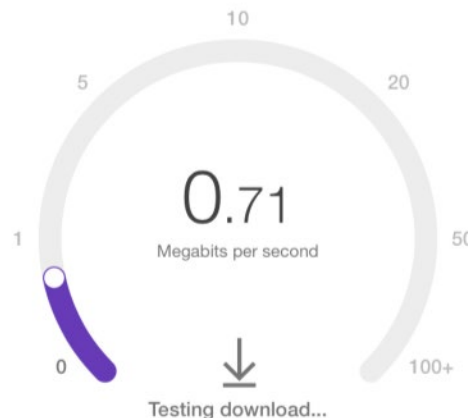
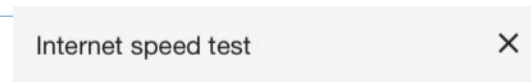
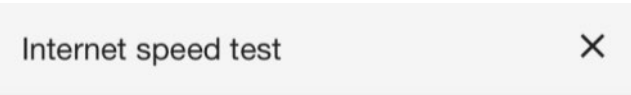
1.3 Minimum Requirements

Minimum requirements must be met for full and proper functionality of the DVR.

- Compatible display with corresponding cables. Please see 2.3 Compatibility for more information.
- A wireless router with one empty port (for remote viewing).
- A physical internet connection such as Cable / DSL / Fiber—no satellite, 3G/4G hotspots, or city-wide wireless (for remote viewing).
- A minimum upload speed of >256kbps at the location of the DVR (for remote viewing).
- Android (v.2.2 and up) or iOS (v.6 and up) mobile device (for remote viewing).

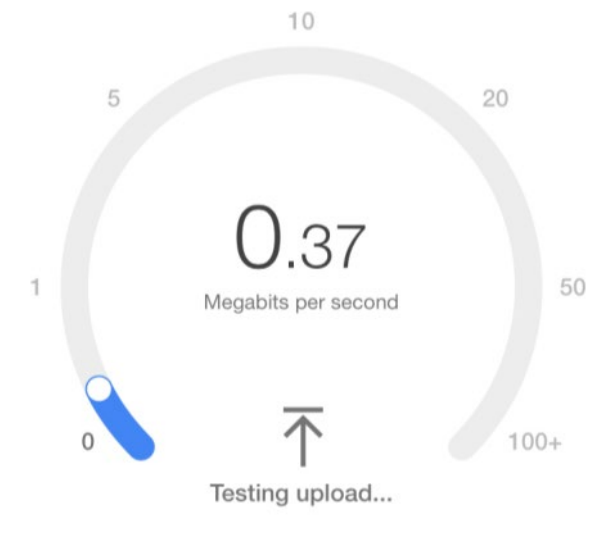
Example:
Jacci's DVR and

Jacci's Internet speed



Mbps download

Mbps upload



1.28
Mbps download

Mbps upload



THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES

256 kbps=.256 Mbps

What to buy?

Cameras

- Ir cameras to see in the night
 - Extra IR lights to give more brightness in dim areas
- The focal length and depth of field will combine to determine the width and length the camera will be able to pick up.
 - 1/3" sensor and 3.6mm lens-
- Audio if you want it?
- Rotating- if barn is set up for that good option
 - Think of gate placement, solid bottoms cant see through, better to have an additional camera



What to buy?

Cable from camera to the DVR

- Normally BNC video line
- Power line also needed
- Audio needed if your camera is capable
- Will need adapters to connect cables for length
- Will need clips to hold and organize cables

Sold as a combo cable-
normally in 25ft increments



What to buy?

Cable from brain to house/ Video transmitter

- Dependent on your DVR
- Look at the back to see what cable should be used- video out
 - VGA or HDMI
- Video transmitters
 - Most have RCA connections
 - There are adapters from BNC to RCA



THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES

What to buy?

Apps for your phone

- Most DVR's tell which app to download
- Normally a free app
- Most have a QR code to scan that sets up the DVR to your phone
- READ INSTRUCTIONS
 - It really helps

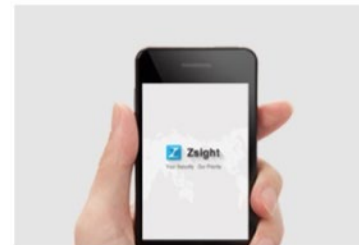
Mobile remote access in seconds



- 1** Connect the DVR to the Cameras & a Monitor



- 2** Connect to a wi-fi router



- 3** Download the Zsight App and register an account



- 4** Scan the QR-Code and Enjoy Live Viewing

Hassel Free Device Setup!

3 easy steps to link your cameras to your Mobile and Tablet Devices.
Have your cameras On-the-Go every time and every where.

1. Install App



2. Scan QR Code



3. View Camera



THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES

CoolCamHBP is also available on mobile devices – iPhone, iPad and Android any devices.
Install CoolCamHBP from App store or Google Play to access Live View, Playback, and Record all at your fingertip.

Cost?

DVR/ Brain- very dependent on storage size

4 camera- \$40-\$60

8 camera- \$50-\$180

16 camera- \$70- \$350

Cameras

about \$30

Cable

\$6-\$10/ 25ft

Video transmitters

\$20-\$50 dependent on range

Plug and play camera

About \$45



Or... Hire it done



THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES

Useful Apps



THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES

HerdBoss

Apple and droid products

Also a website login available

- For Sheep- but can track most any livestock
- Has an importing excel sheet available
- Tracks animals
 - Weight
 - Medications
 - Pedigree (ancestor chart)
 - Offspring
 - Mating records
 - Flushes
 - ultrasounds

< Sheep	JET 0926 Tina	Edit
HISTORY		
Add Note		>
Add Weight		>
Add Medicine		>
View Ancestor Chart		
Share PDF Report		>
View Offspring Report		>
CHILDREN		
Children (2)		>
Add Lamb		>
MATING RECORDS		
Breed With Ultra Max		>
Mating Records (3)		>
Add Mating Record		>
Add Flush		>
Add Ultrasound		>



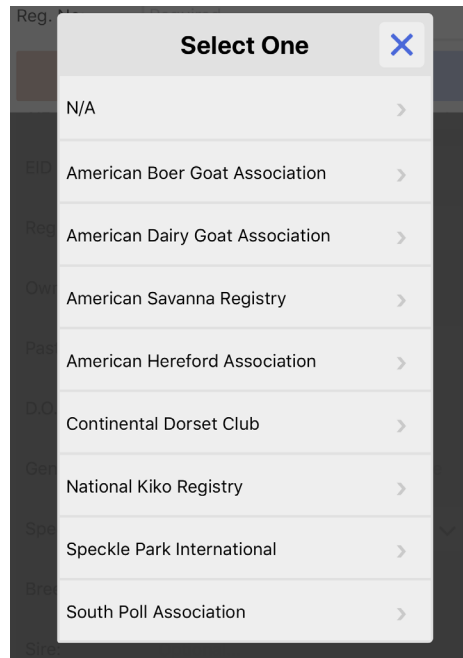
Has a “my sheep” and
“Other sheep” sections fo
use of reference animals



Livestocked

Apple and droid products

- For livestock-
- Links to some associations through registrations
- Tracks animals
 - Weight
 - treated
 - Mating records
 - Preg check
 - Castrated
 - Scrotal size
 - Fecal egg count
 - Much more



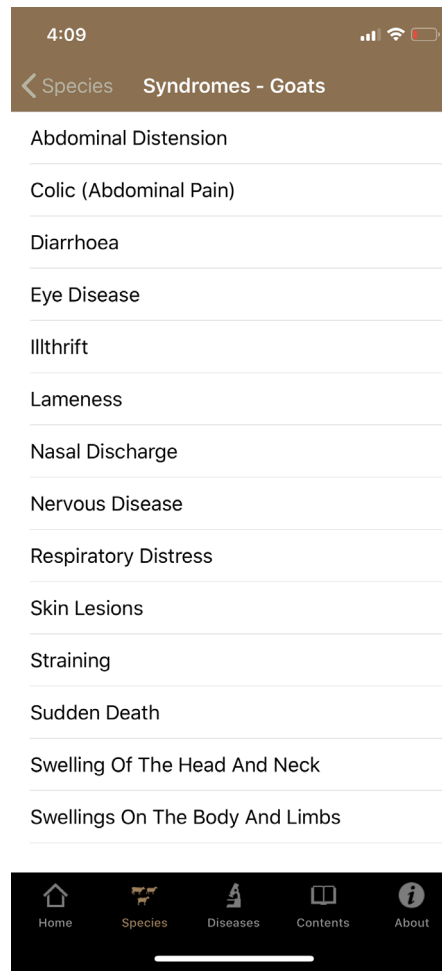
**Has a “owned” and
“reference” section for use
of reference animals**



VetHAndbook

Apple and droid products

- For cattle goats and sheep
- Health management and diagnosis app
- Has syndromes section
- And has disease section
 - Diagnose
 - Treat
 - Prevent
 - Syndromes



Questions?

Jacci Smith

Smith.11005@osu.edu