

Who is The Snell Group?



Snell Group

- Established 1986
- Headquaters in Barre, VT
- Offices around North America
- Training, inspection & consulting services provided world-wide:
 - Infrared Thermography (IR)
 - Electric Motor Testing (EMT)
- · Full-time support staff
- Free customer support after training
- www.thesnellgroup.com

• The Snell Group is independent of equipment sales

- We work with ALL vendors and their customers.
- we work with ALE vendors and their customers.







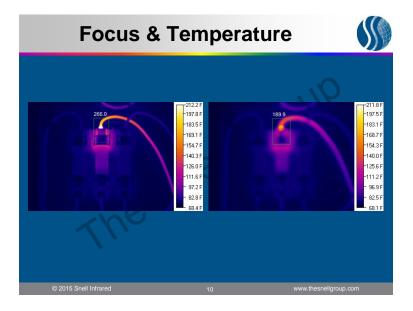


Qualities of a Good Image

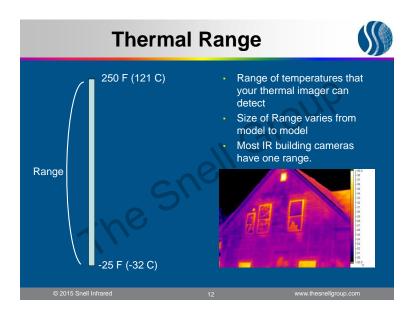


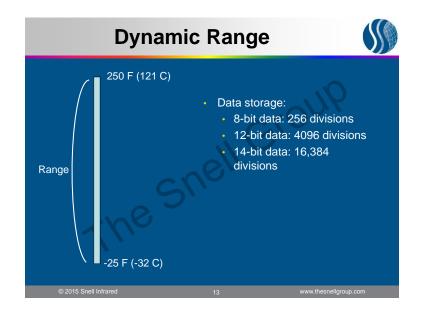


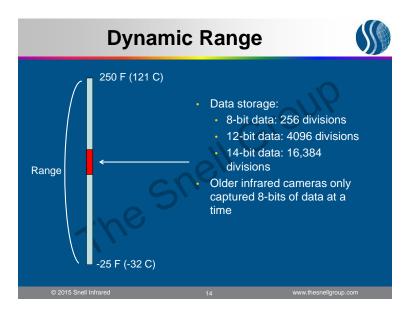


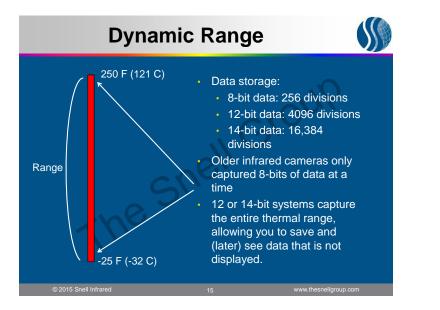


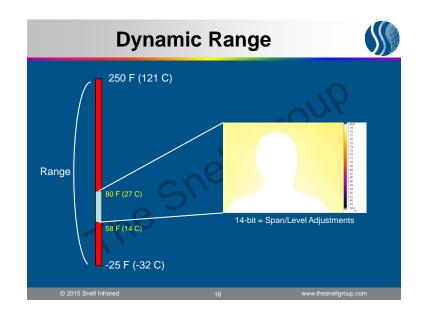


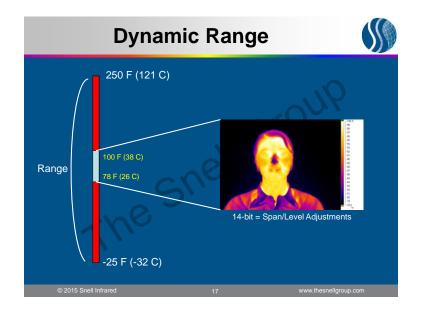


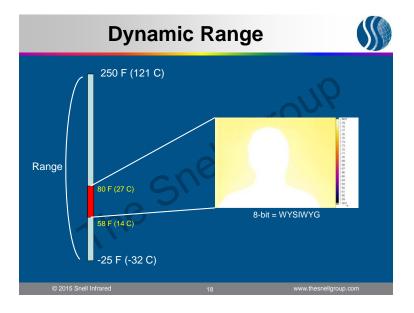






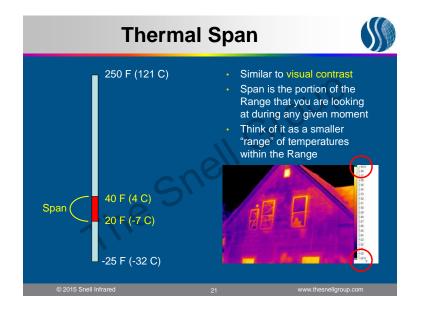


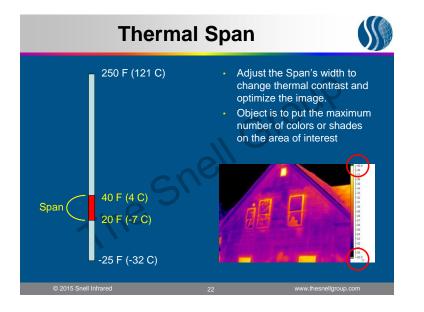


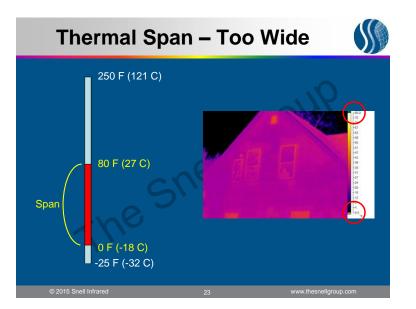


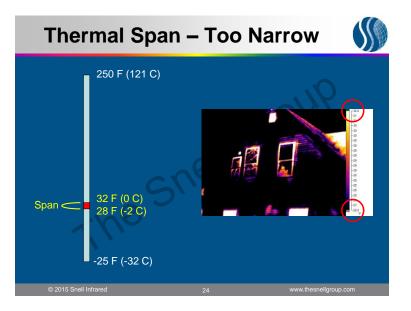


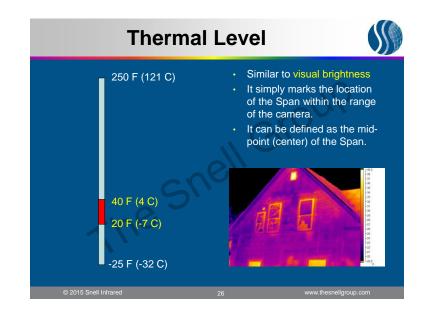


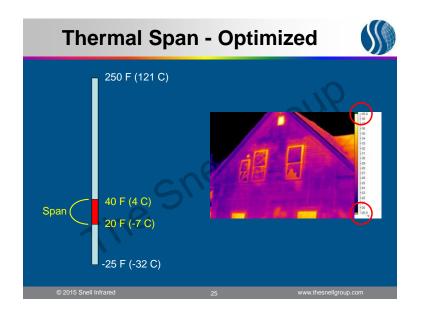


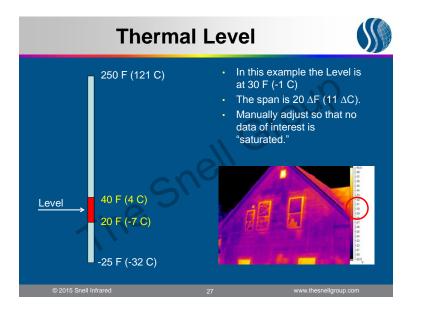


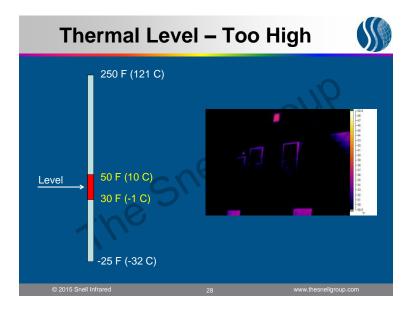


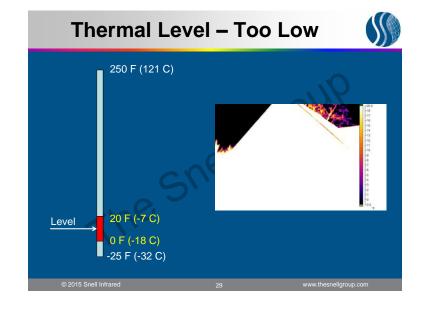


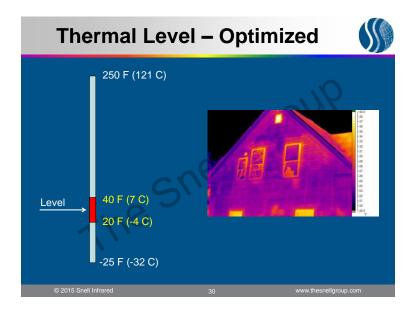


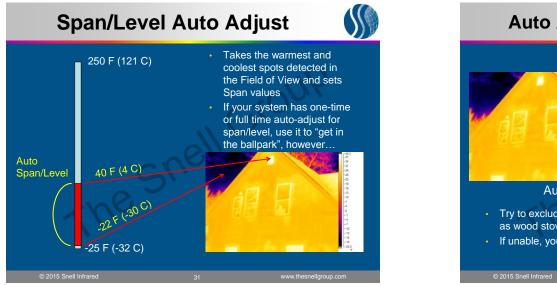




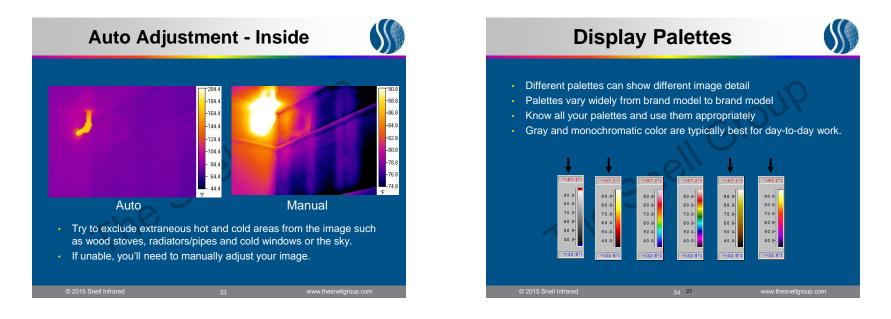








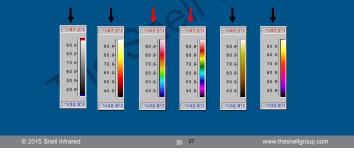


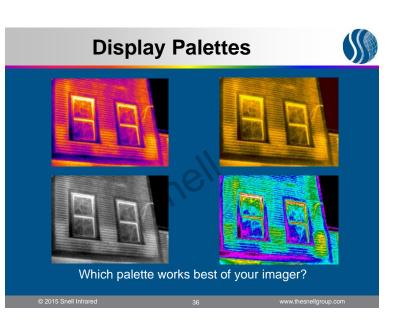


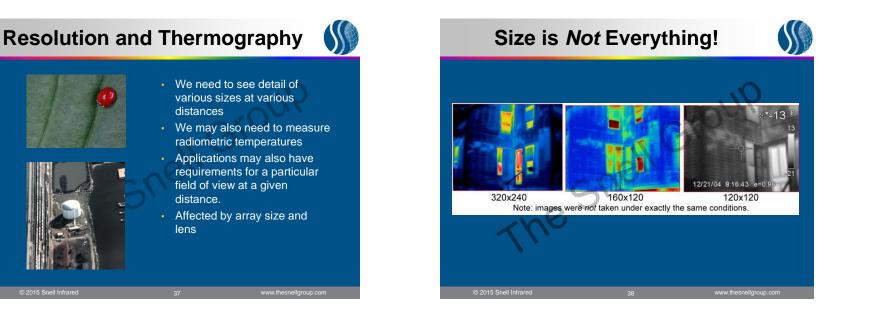
Display Palettes



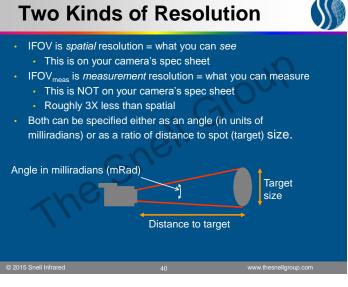
- Different palettes can show different image detail
- Palettes vary widely from brand model to brand model
- Know all your palettes and use them appropriately
- Gray and monochromatic color are typically best for day-to-day work
- · Rainbow best used sparingly for high contrast needs and marketing.

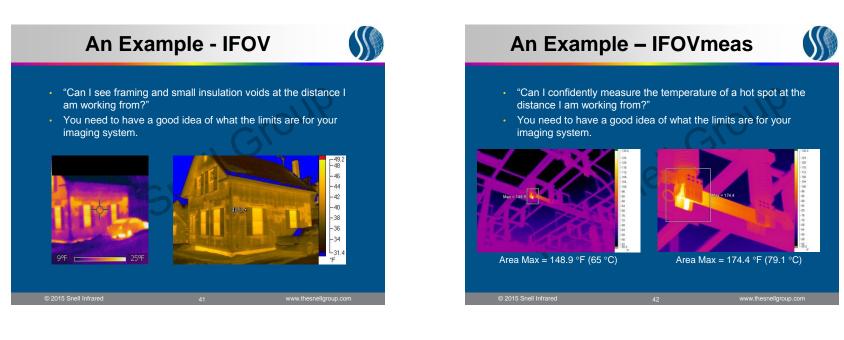


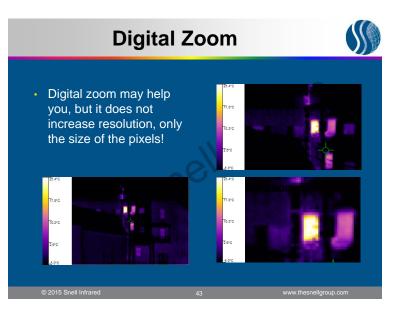


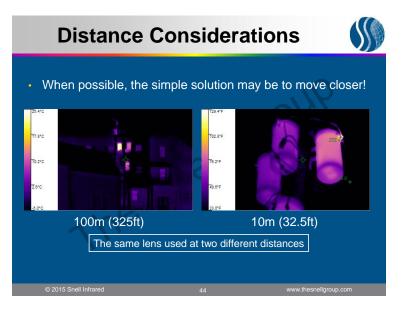


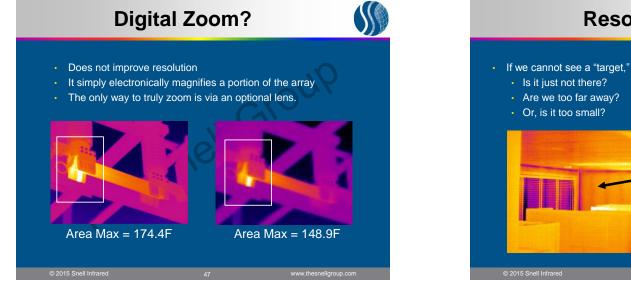
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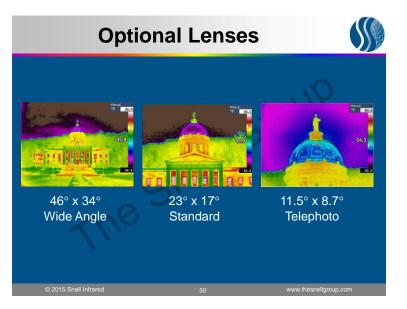




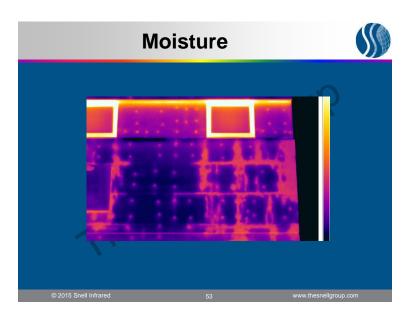


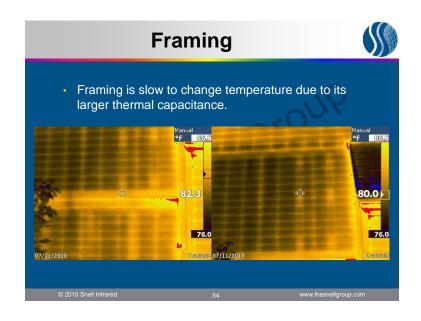


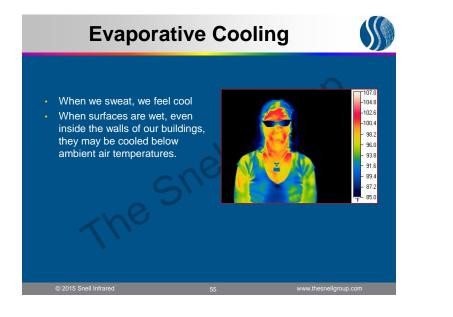


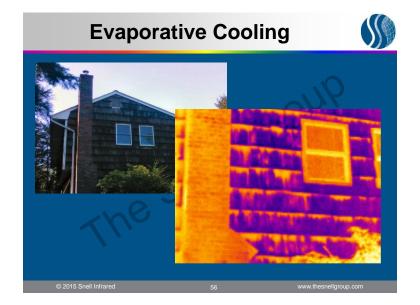


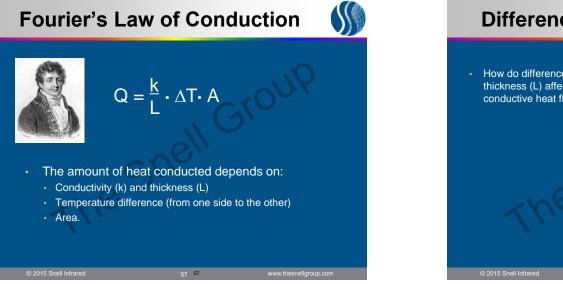








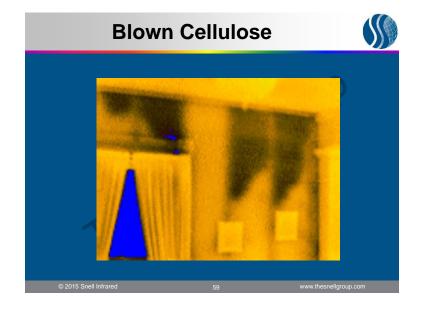


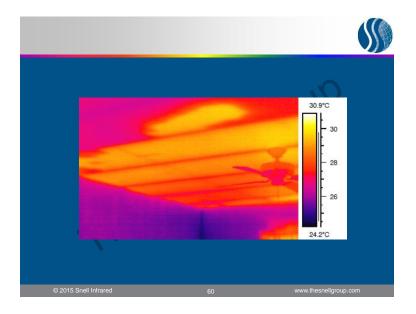


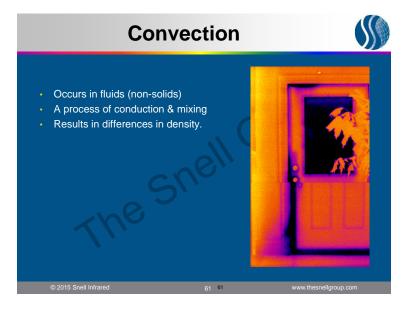




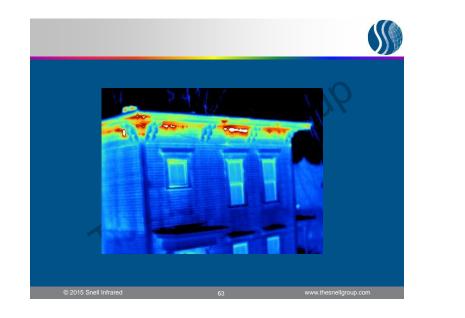


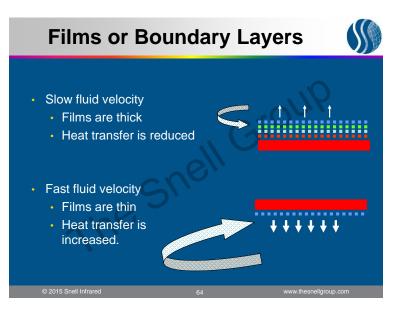


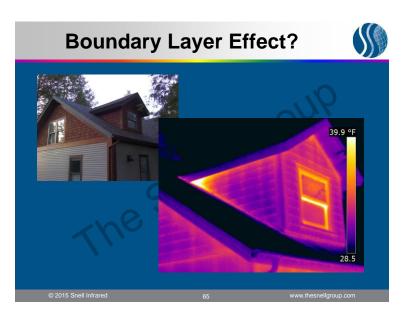


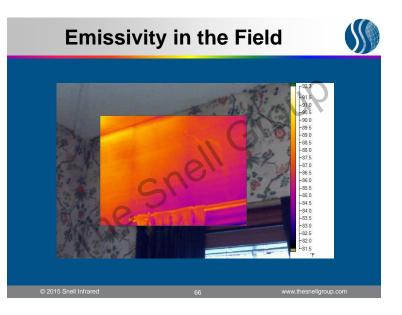


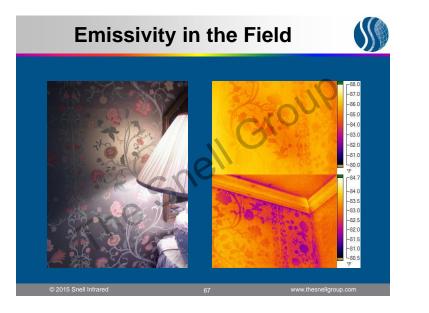








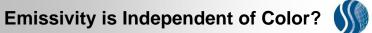


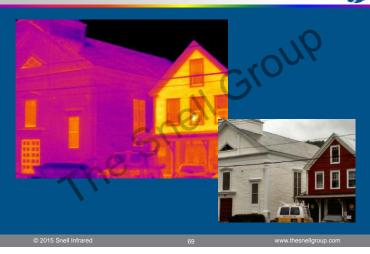


Emissivity is Independent of Color



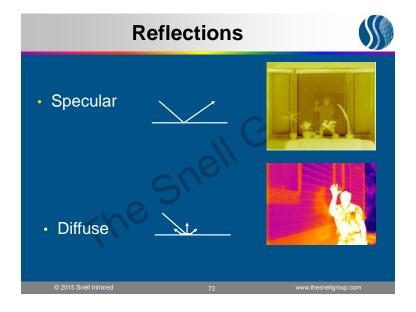


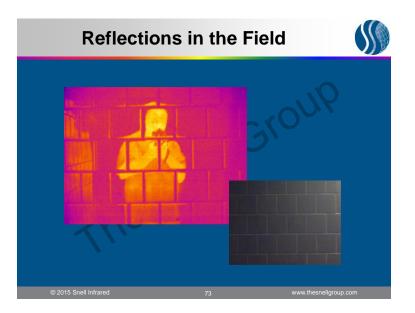


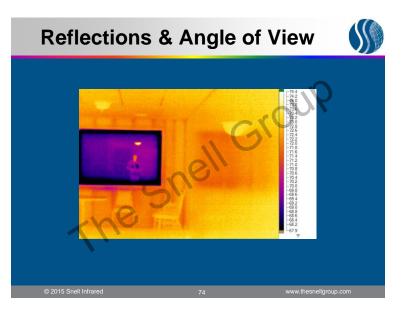


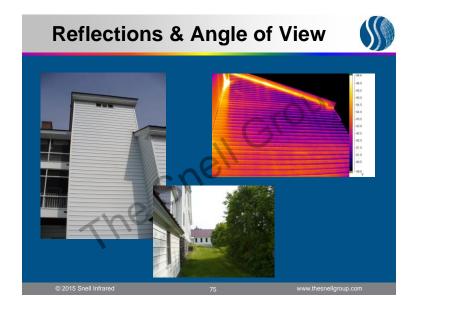


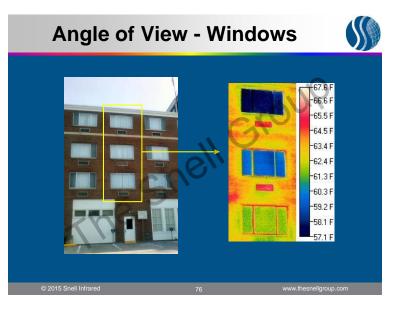








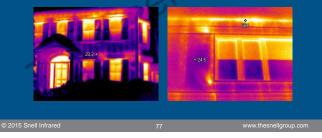


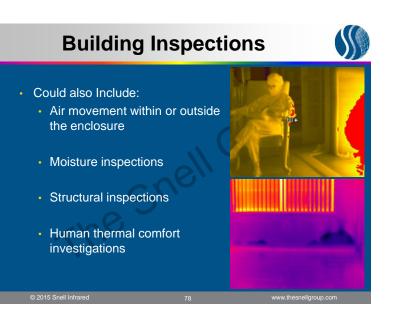


Building Inspections

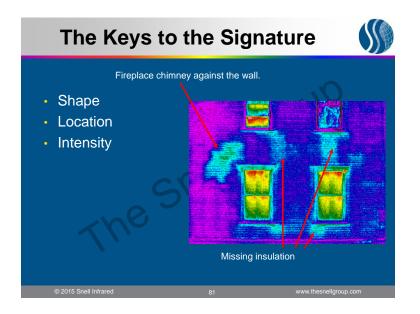


- A complete IR building inspection is often actually *two* inspections in one:
 - Insulation
 - Air leakage
- Typically these an *qualitative* inspections.

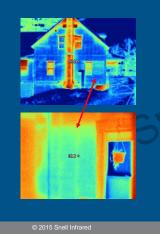








Conduction Inspections



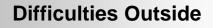
- Perform conduction inspection before inducing any air leakage
- 10° C (18° F) or greater stable ΔT
- View both sides of the wall Inside is usually best view
- Outside gives "big picture"
- Account for wind & sun
- Know the type of insulation.

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inside one • Weather • More thermally disconnected

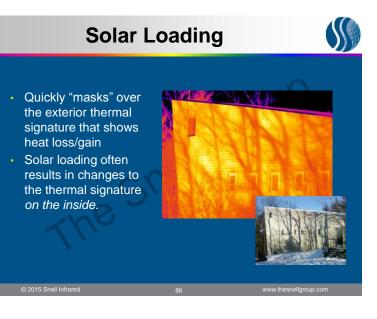


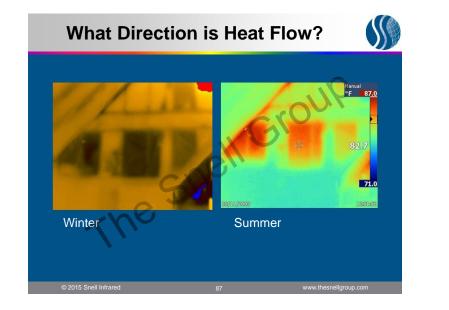
- Excessive wind
- Sun
- Brick-faced
- Vinyl/aluminum siding
- Exterior insulation
- Double wall or back-plastered walls
- Moisture on walls
- Extremely low temperatures
- Distance/Angle of view
- Access to all sides and roof/attic.

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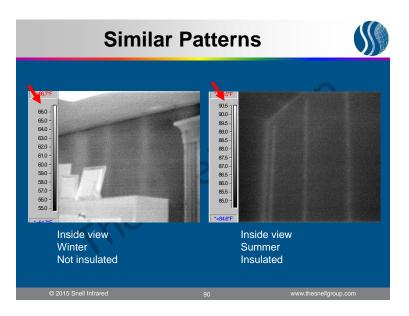
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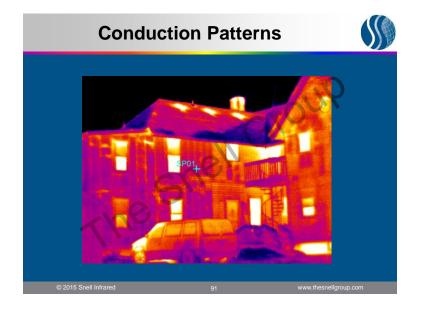


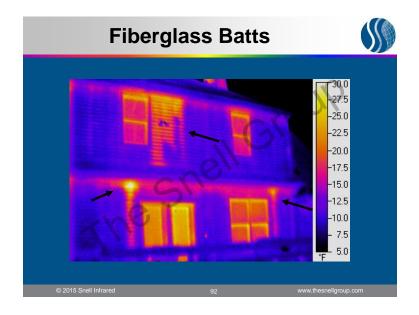


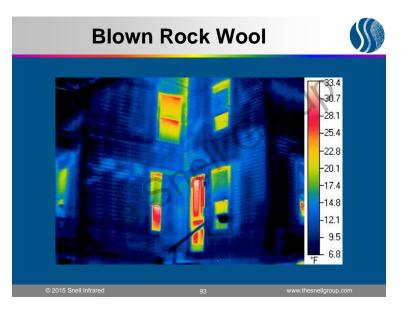


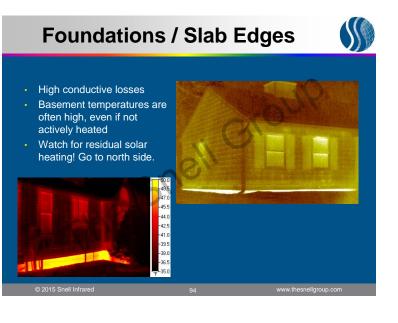


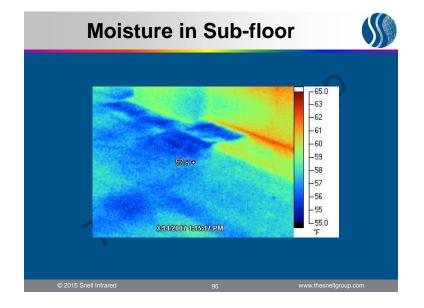


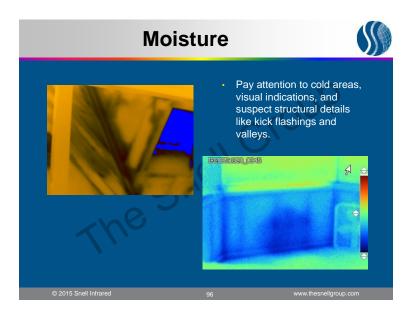


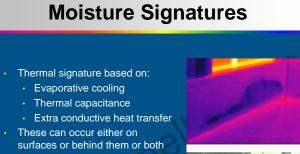








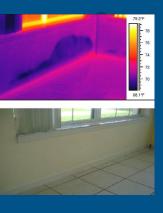




What are the conditions?

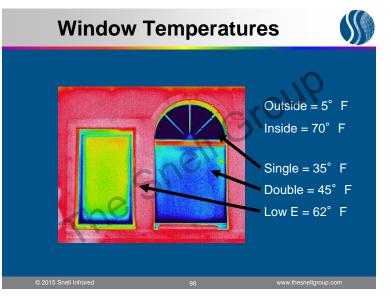
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Whenever possible, verify with a moisture meter.

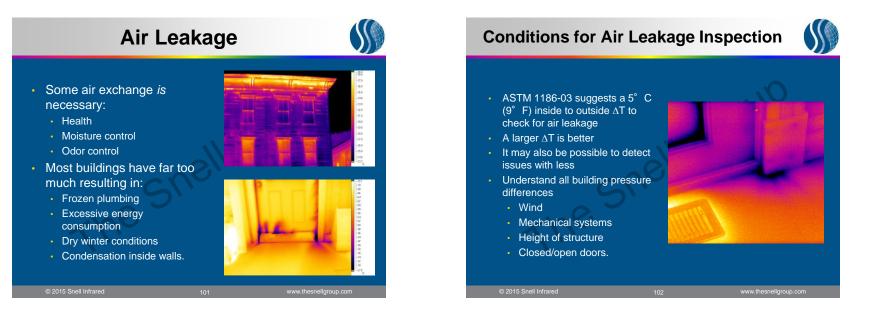


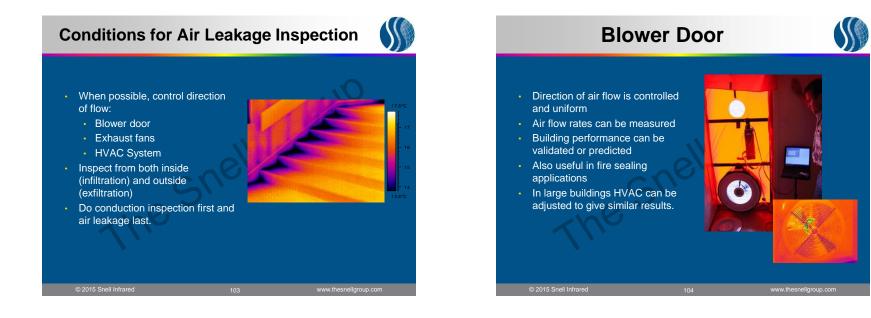
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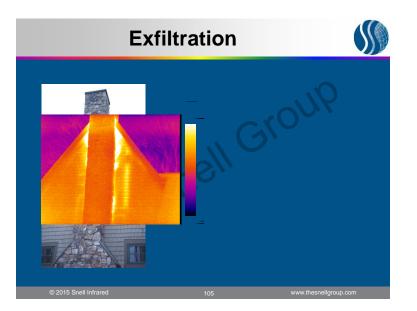
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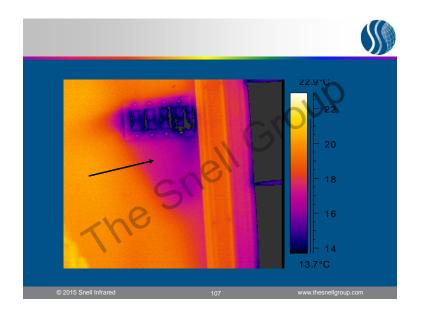




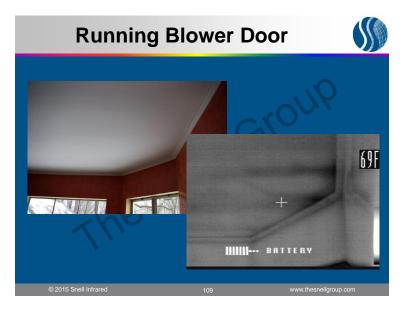


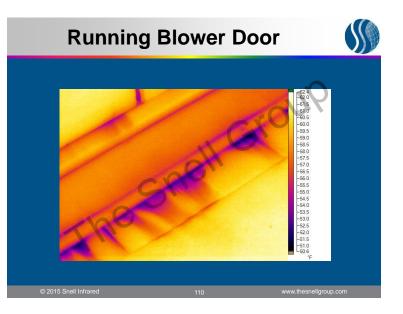


















A fire hazard? Why risk it! Have someone who is qualified investigate further.







• However, you will always encounter electrical components in a residence that are normally warm.



