

Gonsiori 25

TERMOGRAAFIA ARUANNE

17.12.2009

Gonsiori 25 ehituskonstruksioonide termograafia kokkuvõte.

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1 KONTROLLITUD OBJEKTID

Gonsiori 25, Tallinn, Harjumaa

- Väliselt
- Seestpoolt (osaliselt). Korterid nr. 20,9,1,12,19,5.

2 KONTROLI PÕHJUSED

Kontroll teostatakse energiaauditi raames, et ära hinnata hoone piirete soojapidavus.

3 TÖÖDE TEOSTAJAD

- Tööde teostaja – Nikolai Tihhonov

4 TÖÖVAHENDID

Mõõtmised teostati termokaamera Fluke Ti25 abil.

Mõõteseade	Tüüp	Täpsus	Töövahemik
Termokaamera	Fluke Ti25	$\pm 2\text{ °C}$ või 2 % (kumb on suurem)	-20 °C to +350 °C

5 KONTROLI METOODIKAD

Peale pildistamist teostati analüüs, et leida võimalikud kohad, kus esineb puuduseid. Pildid on lisatud antud aruande lissasse.

Termokaameraga pildistamised teostati 17.02.2011 päeval.

Iga termopilti dubleerib ka digipilt objektist, et paremini aru saada termokaameraga mõõdetud objektist. Välistingimustes tehtud piltidel, mida heledam on värvigamma seda suurem on soojusleke. Sisetingimustes on aga vastupidi, mida tumedam on värvigamma, seda madalam on temperatuur, seega halvem konstruktsiooni soojuspidavus.

Tabel 5.1 IR-uuringu kliimatingimused

Asukoht	Temperatuur	
	Kell 13:00	Kell 14:00
Hoones	15-23 °C	15-23 °C
Väljaspool (öues)	-17 °C	-17 °C
Sademed	Puuduvad	Puuduvad
Tuul	3,9(8) m/s	3,8 (8) m/s

6 PEAMISED PUUDUSED

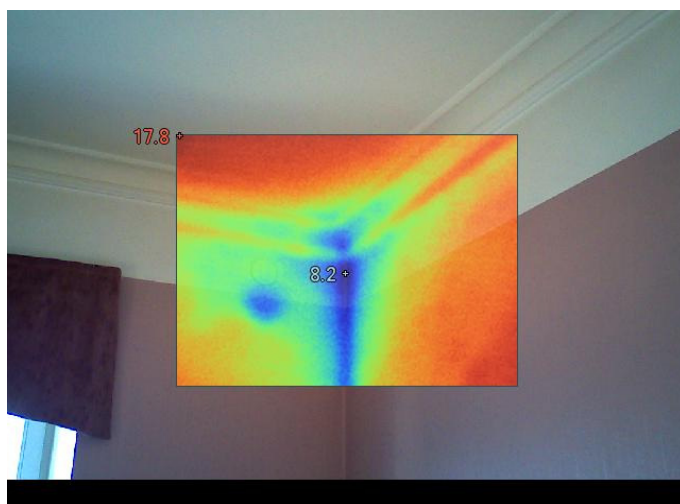
Peamised puudused, mis kontrolli käigus avastati:

- Joonkülmasillad liitekohtades ja nurkades.
- Joonkülmasillad akende kohal.
- Välisseinte vilets soojapidavus

.

7 TERMOGRAAFIA PILDID

Puudustega punktid on märgitud punasega.

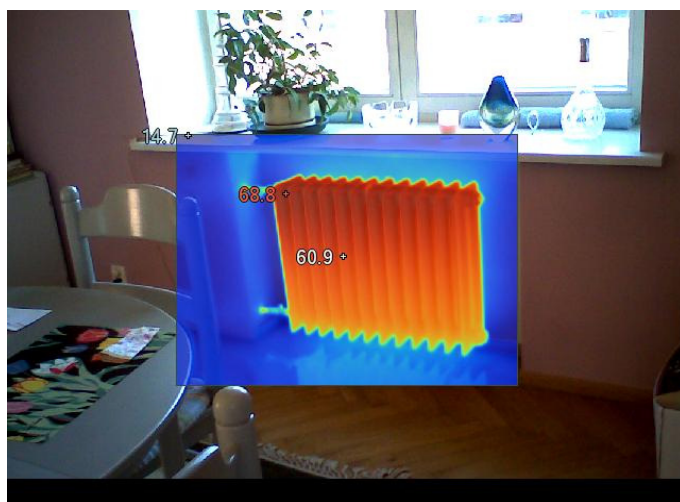


IR008393.IS2

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Korter 20
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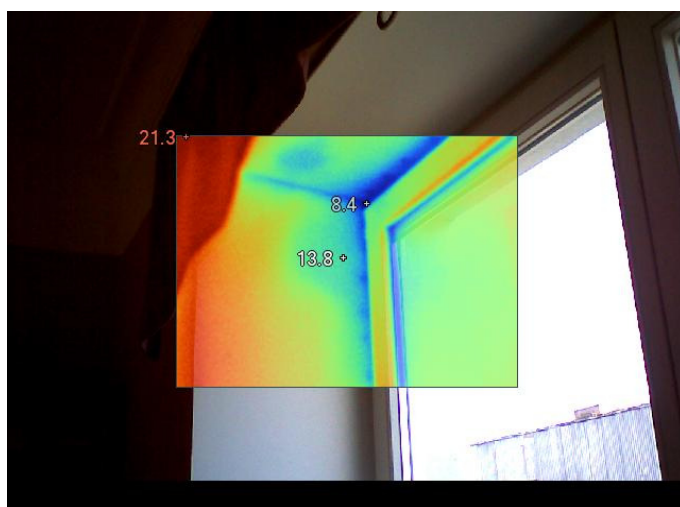


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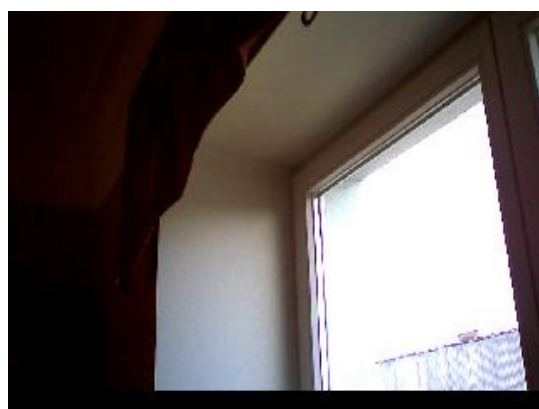


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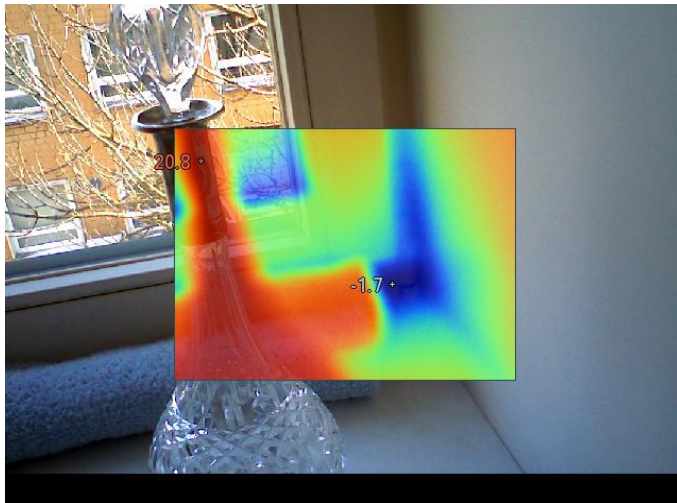


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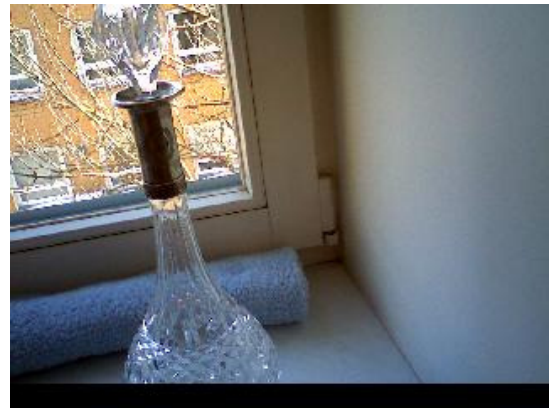
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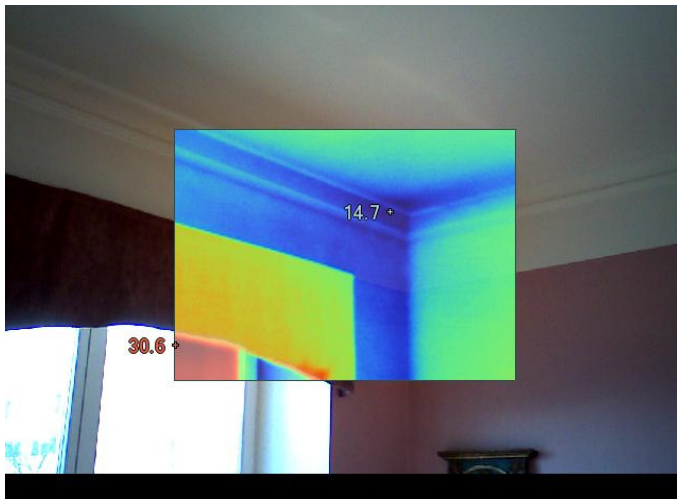
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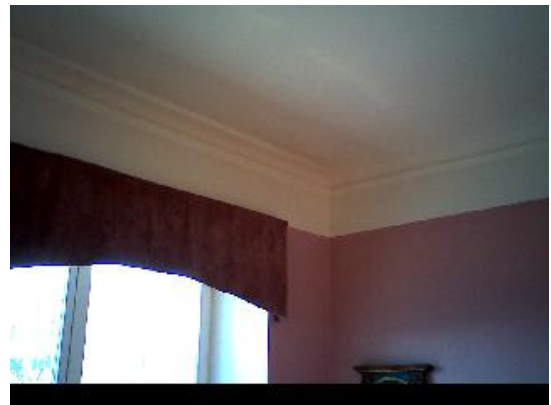
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Korter 20
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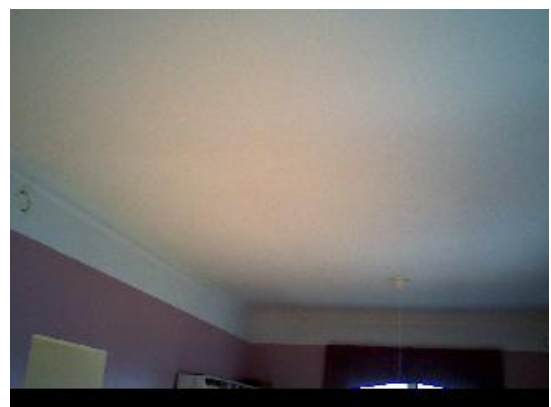
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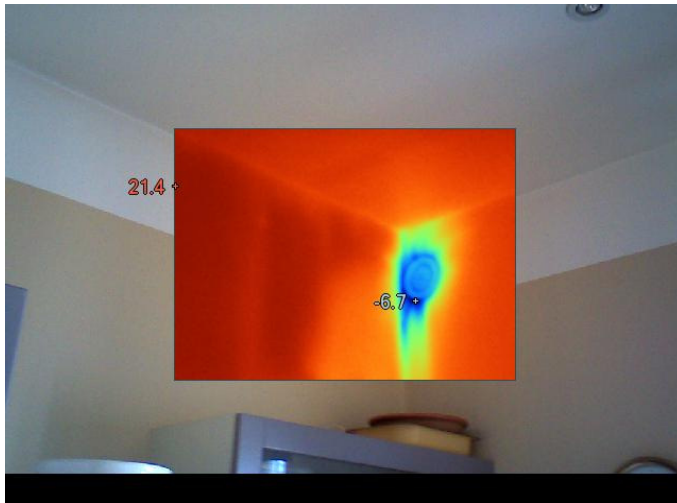
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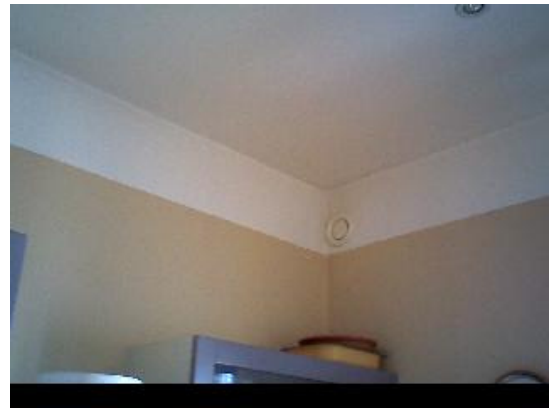
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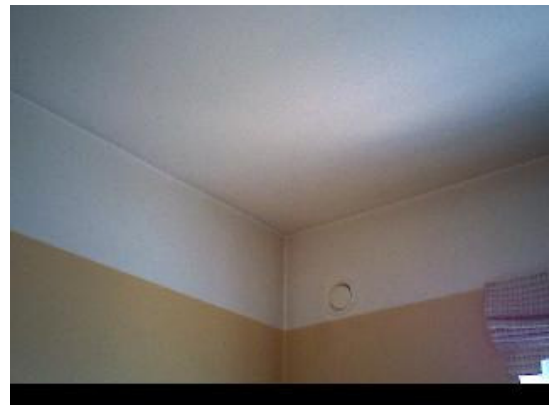
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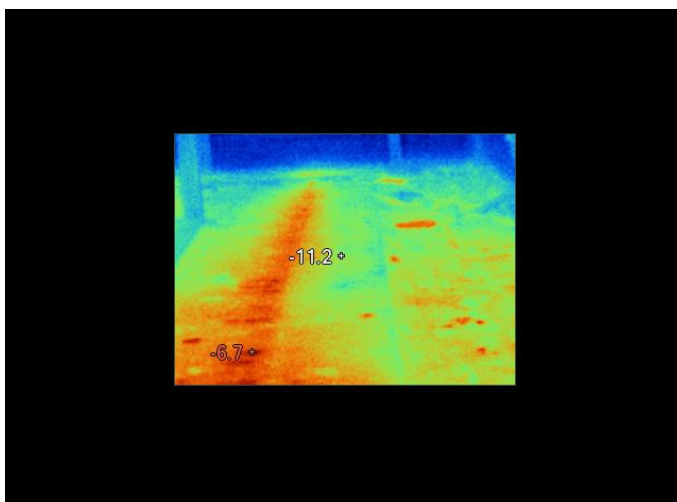
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Külmasild vent. ava kohal



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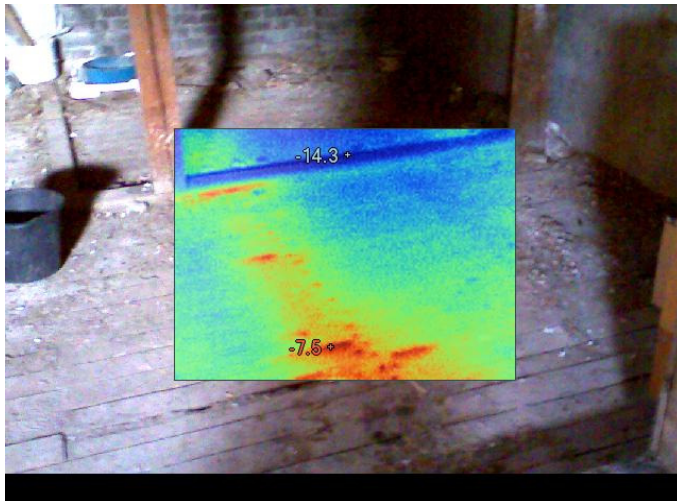


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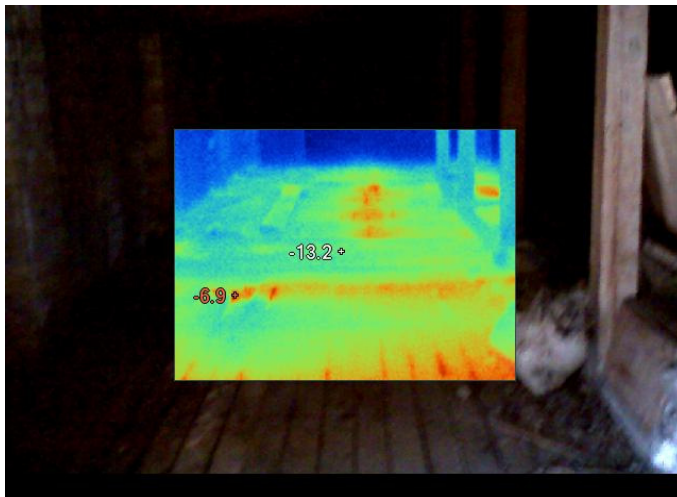
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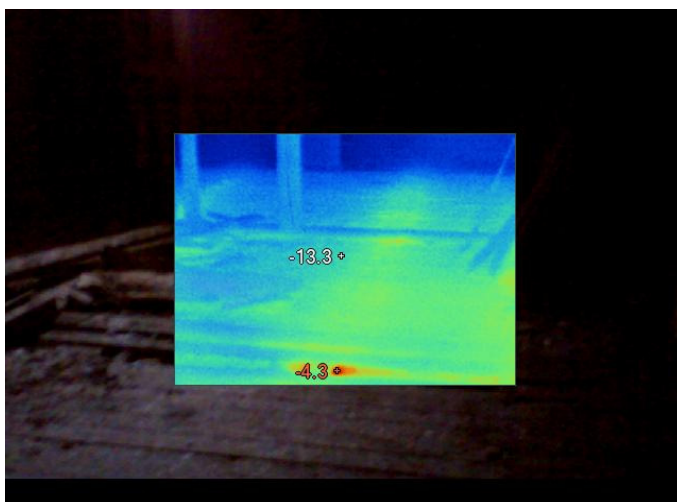
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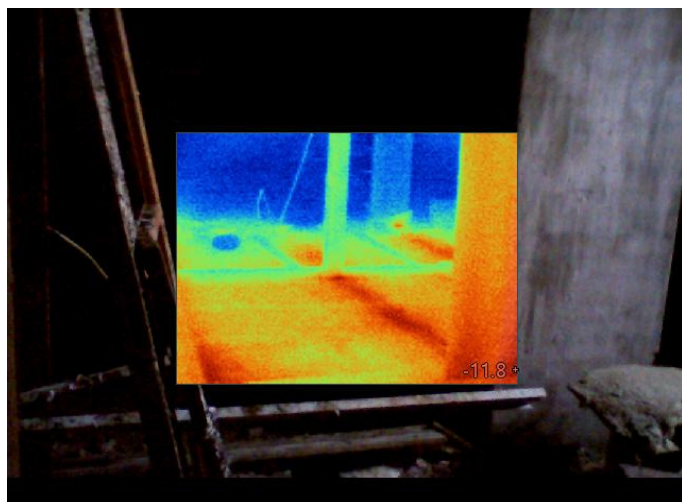
Soojalekked katuse pööningul.



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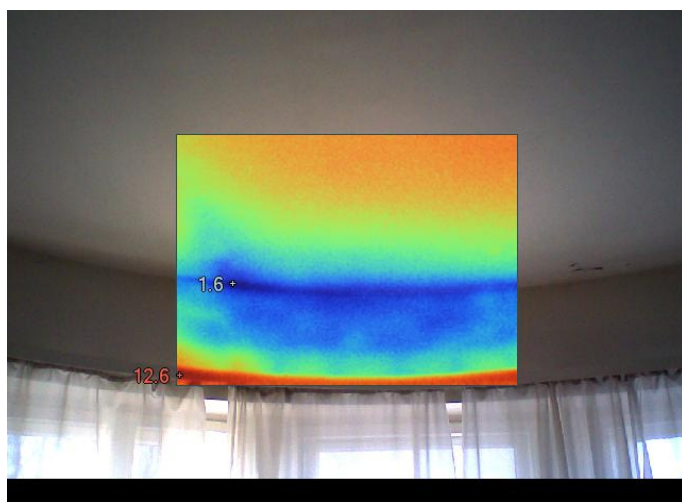


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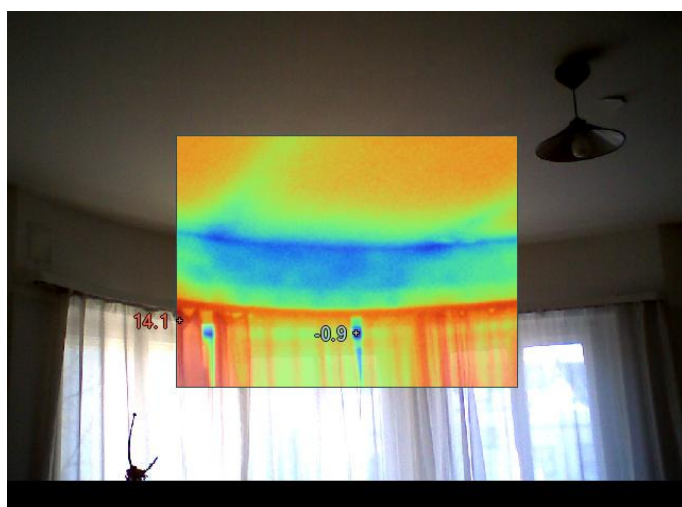


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**Korter 9
Külmasild seina ja lae liitekohas.**



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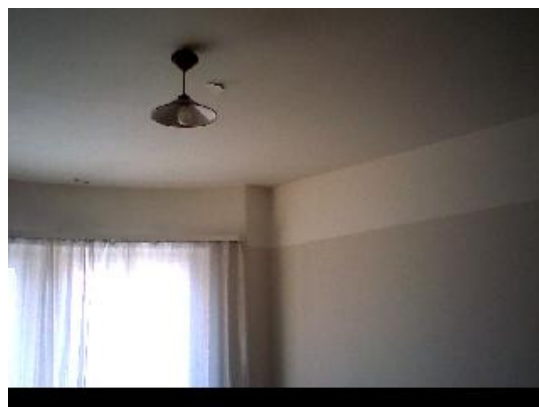


**Korter 9
Külmasild aknaraami kohal.**



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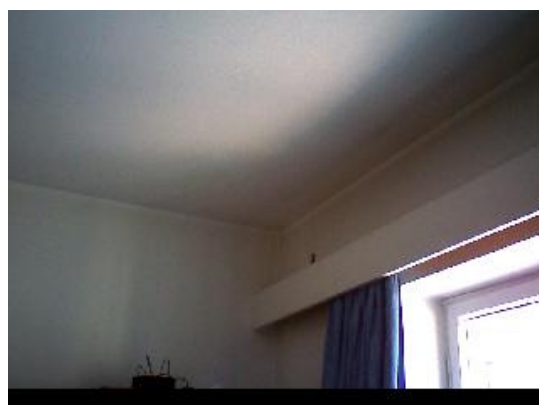


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Külmasild nurgas.



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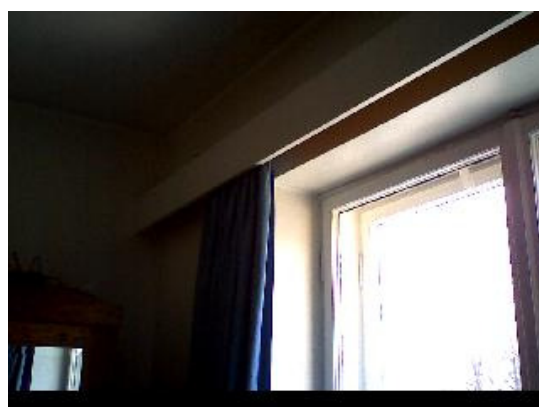


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Külmasild nurgas.



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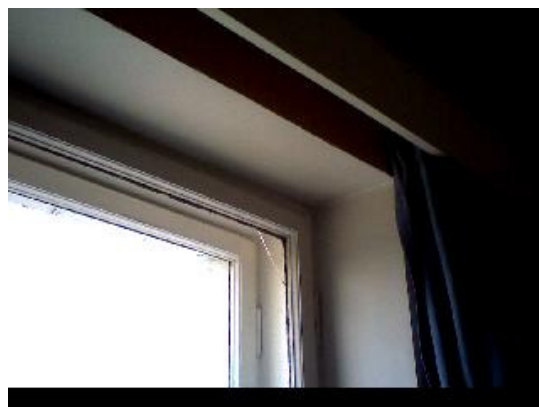


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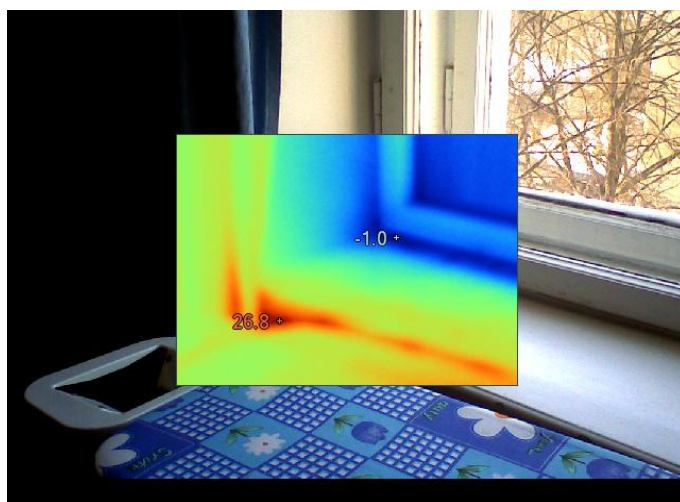


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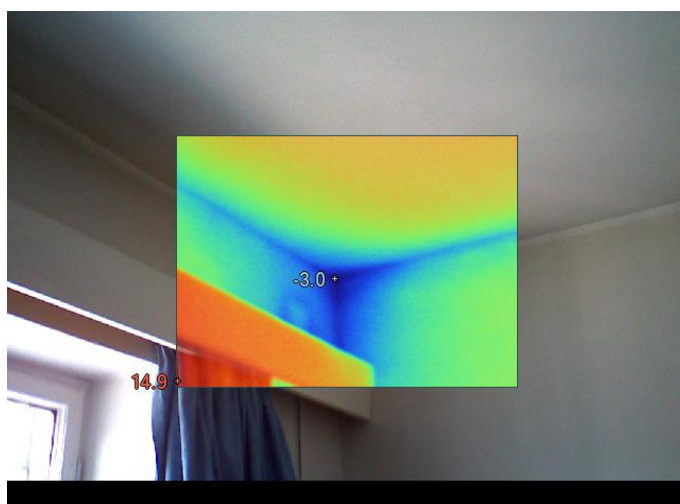


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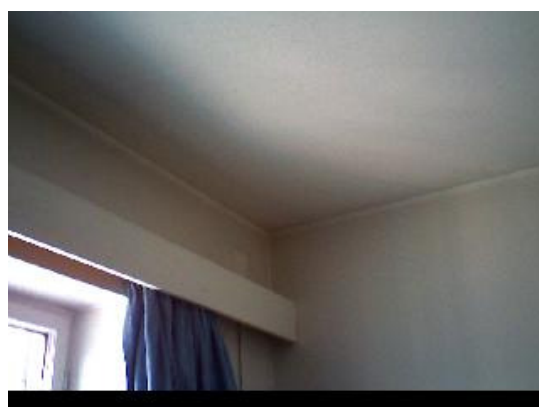


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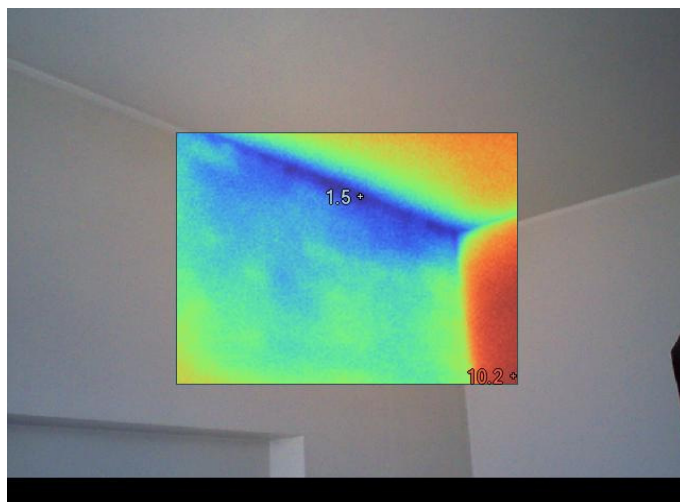


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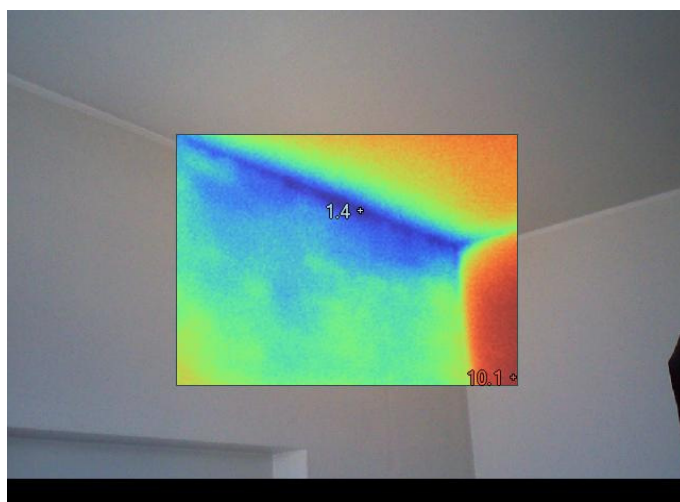
Korter 9
Külmasild nurgas.



Korter 9
Külmasild lae ja seina liitekohas.

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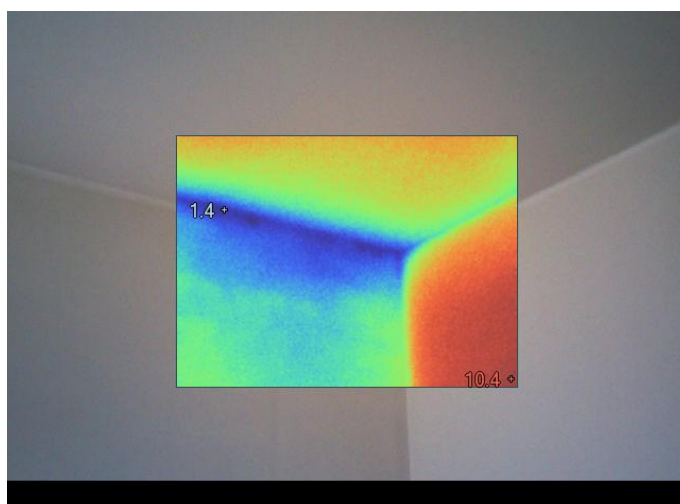
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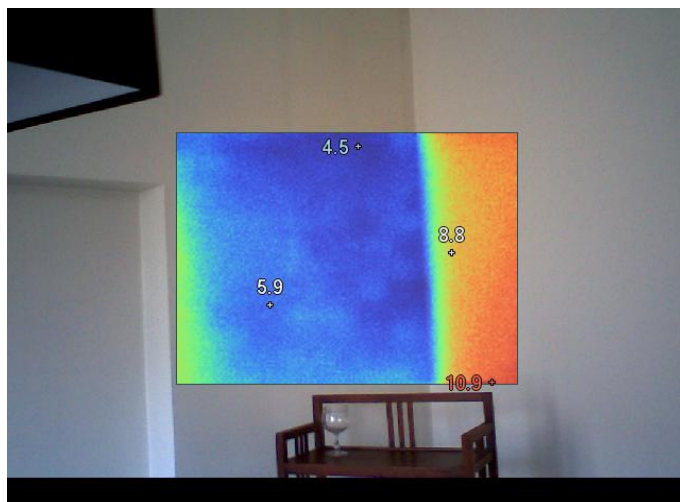
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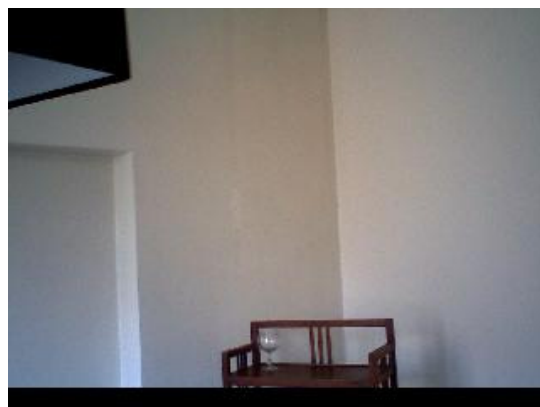
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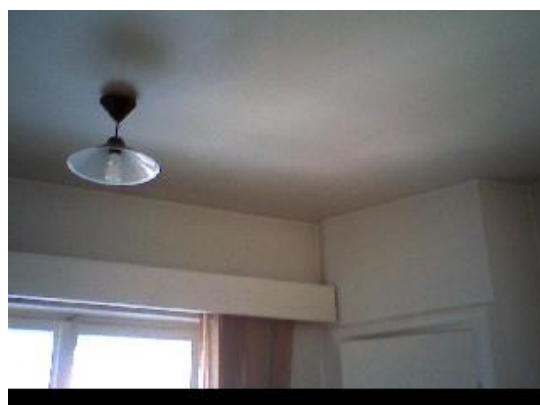


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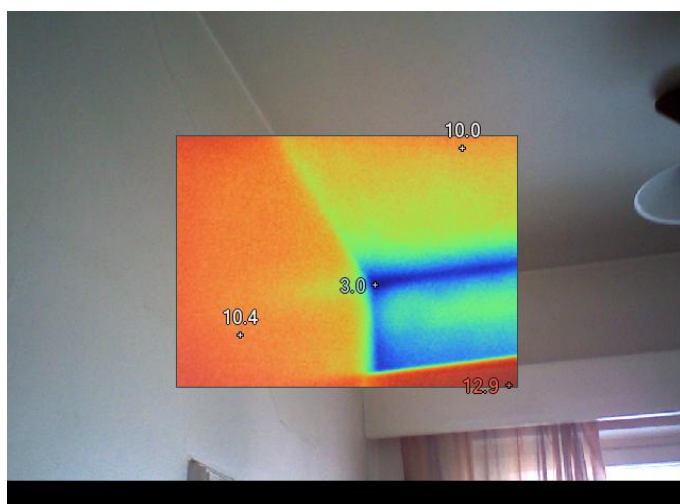


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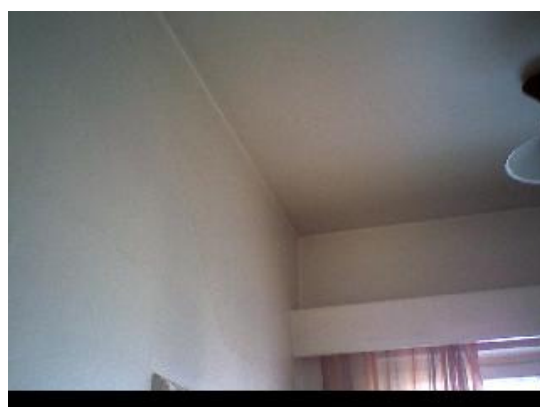


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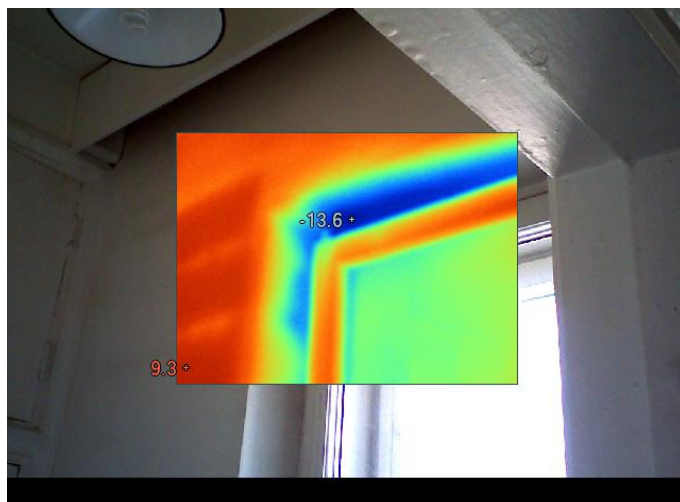


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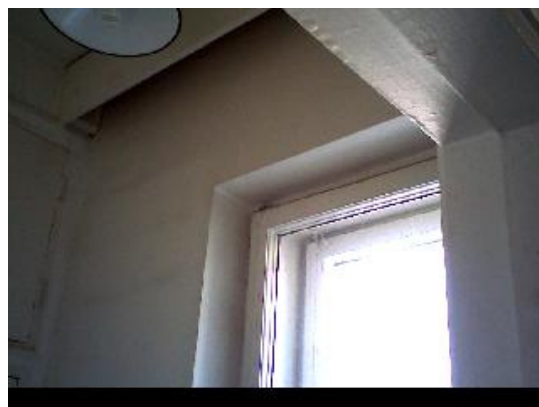


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Külmasild lae ja seina liitekohas.



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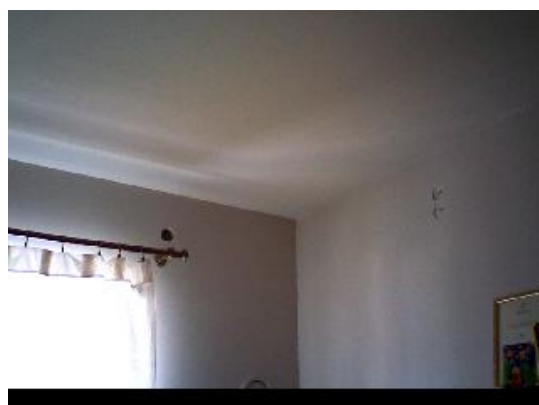


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Külmasild aknaraami kohal.



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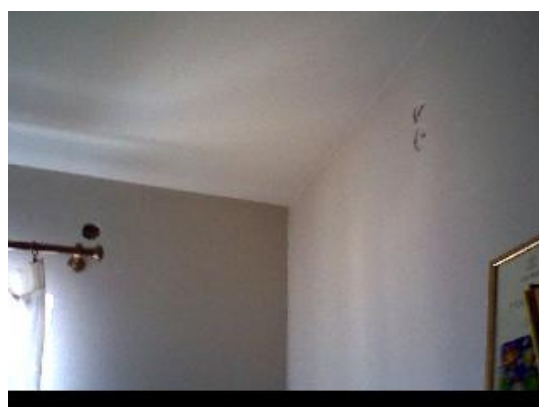


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Külmasild nurgas

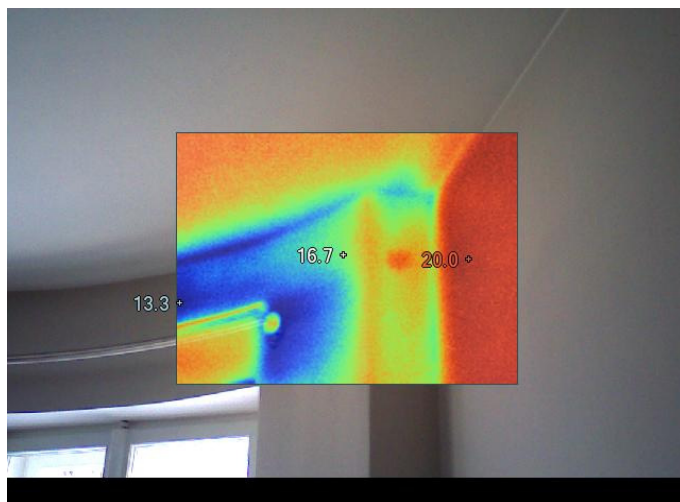


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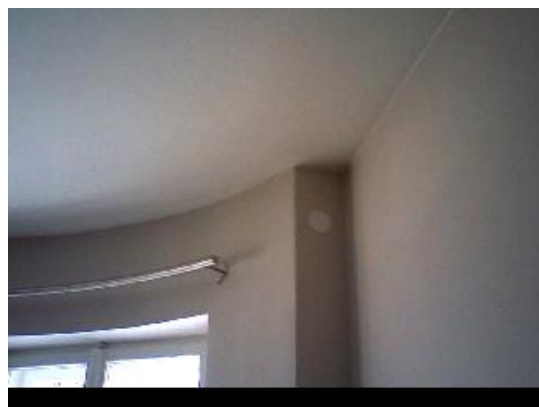


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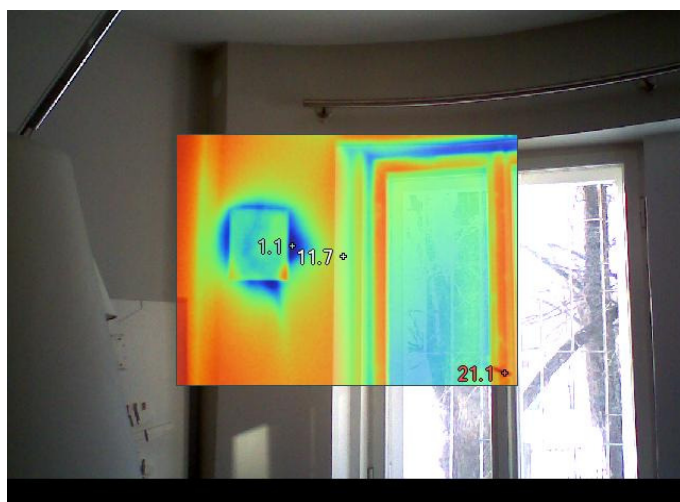


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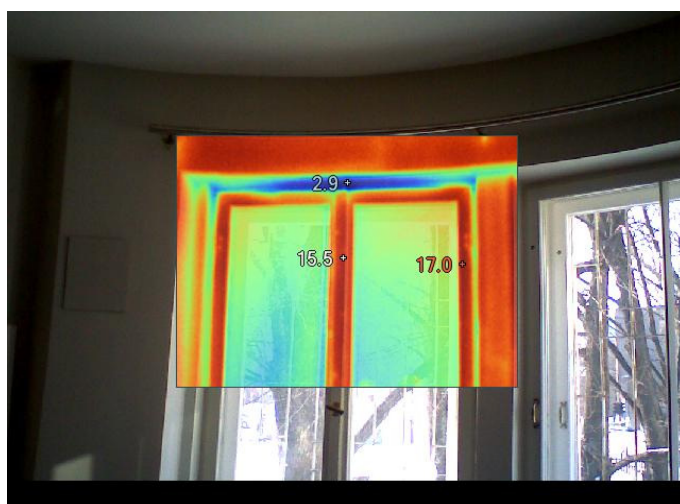


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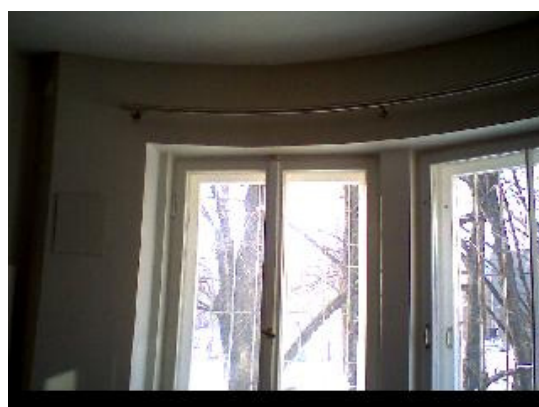


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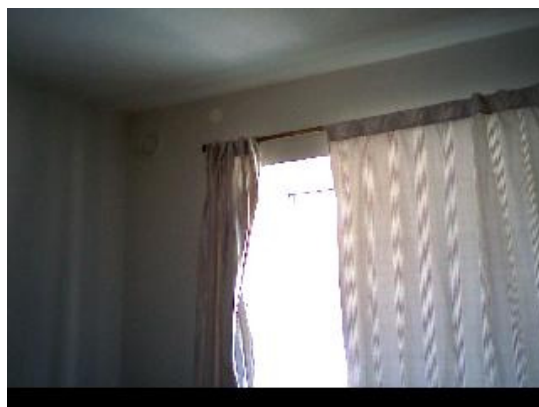


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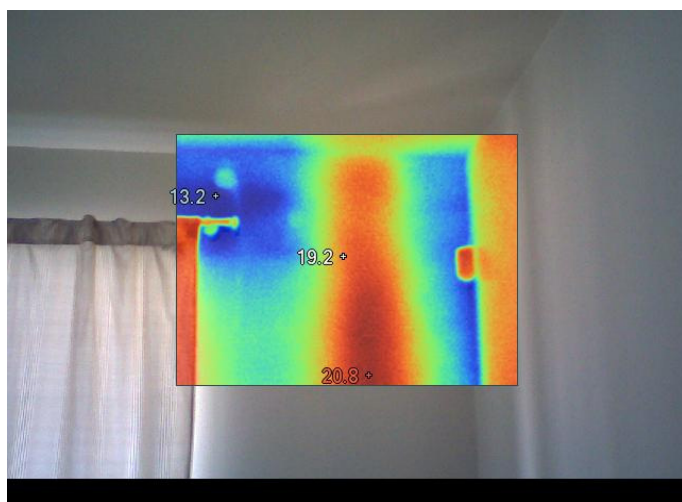


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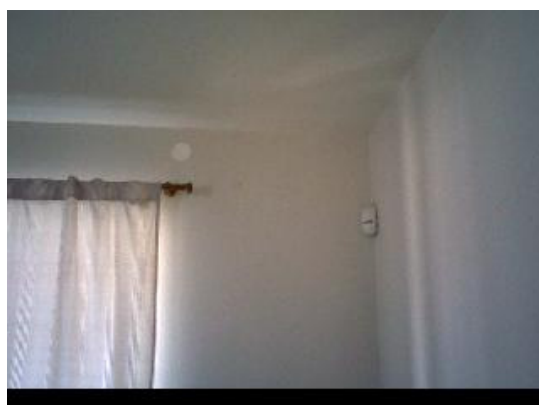


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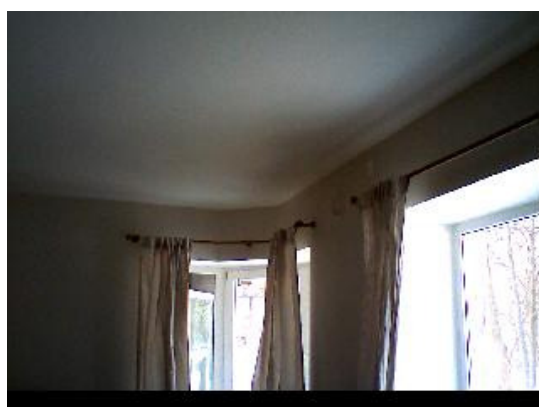


**Korter 1
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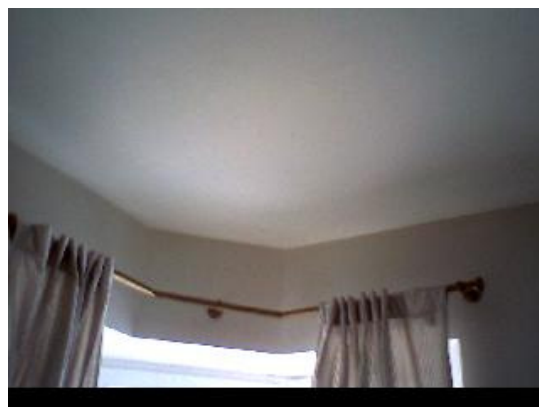


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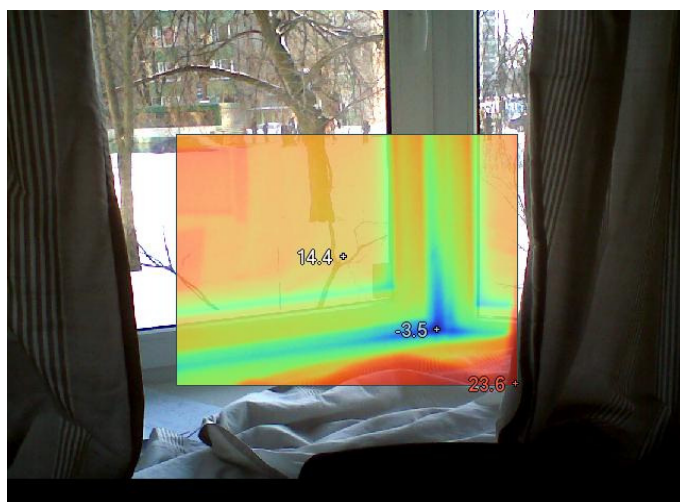


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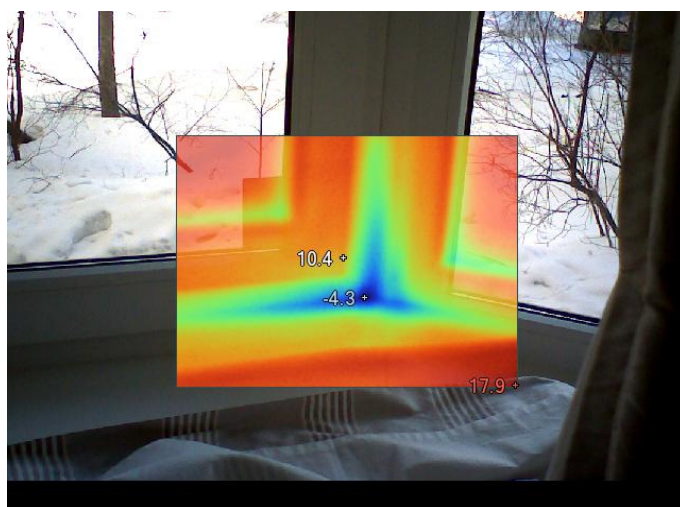


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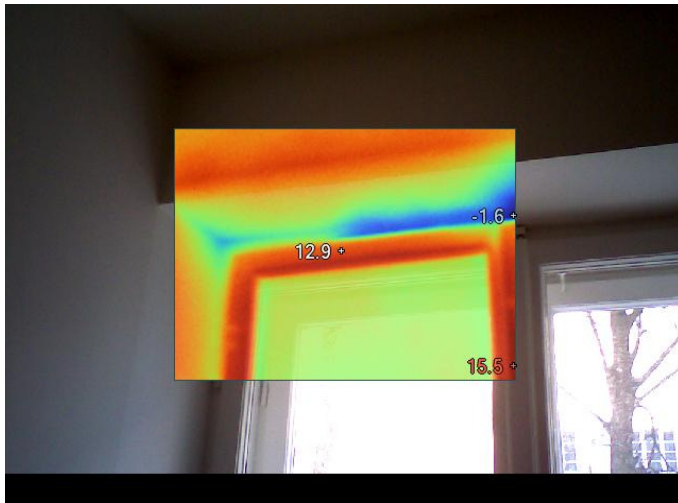


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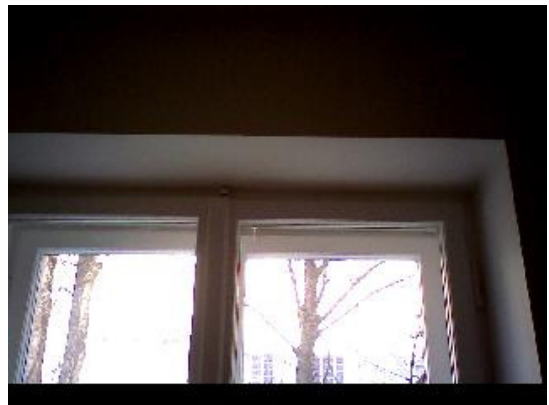


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Külmasild aknaraami ja seina vahel.

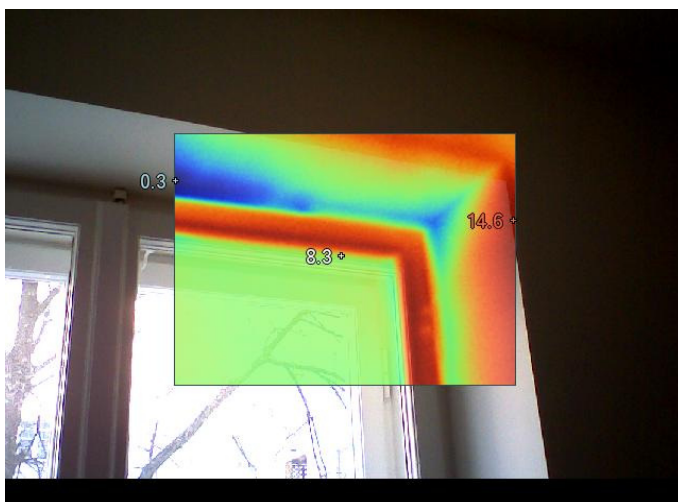


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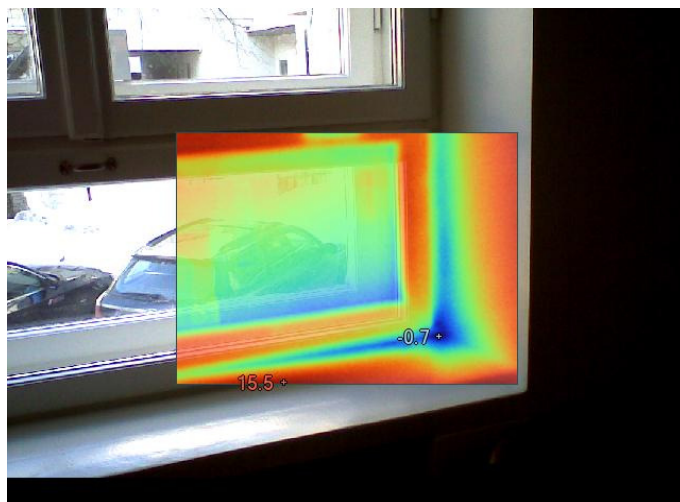


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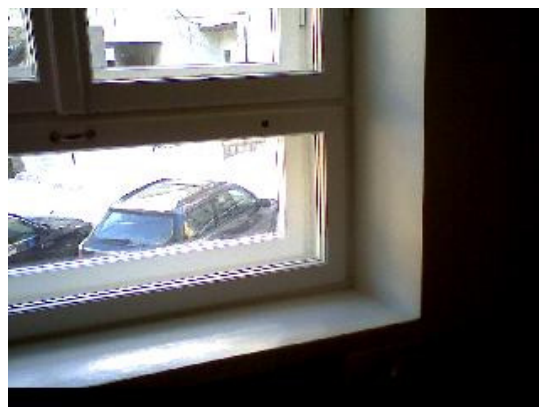


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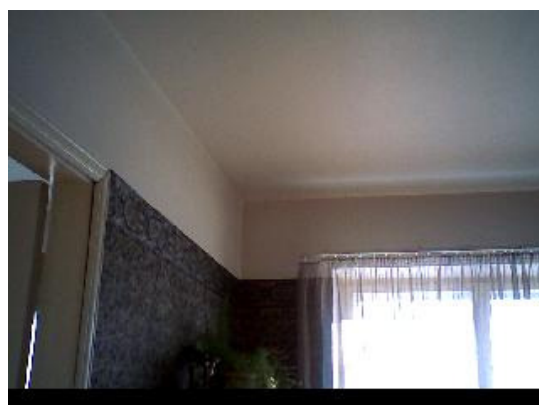


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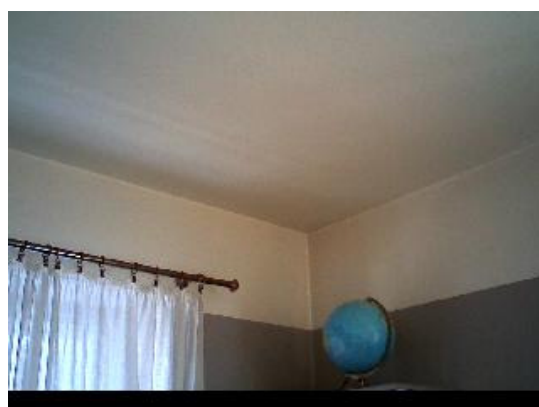


Korter 12



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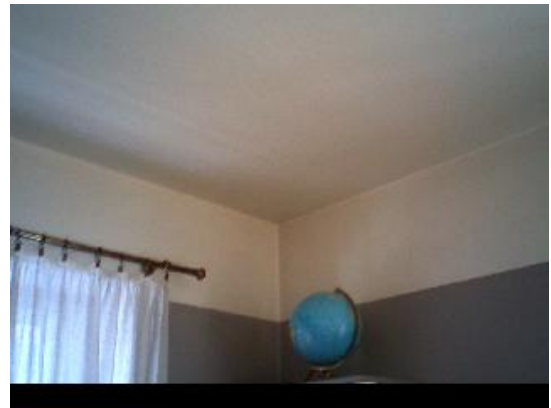
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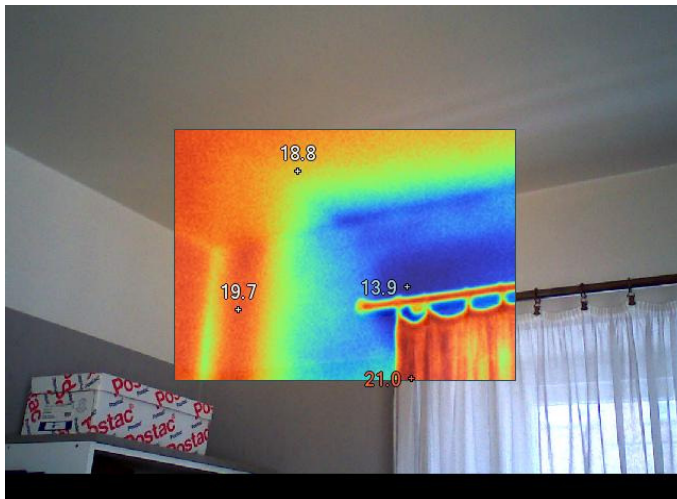
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Külmasild nurgas.



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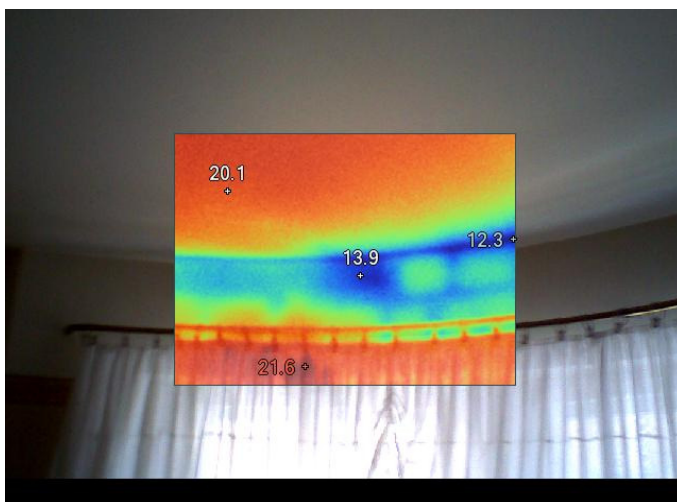
Korter 12
Külmasild nurgas



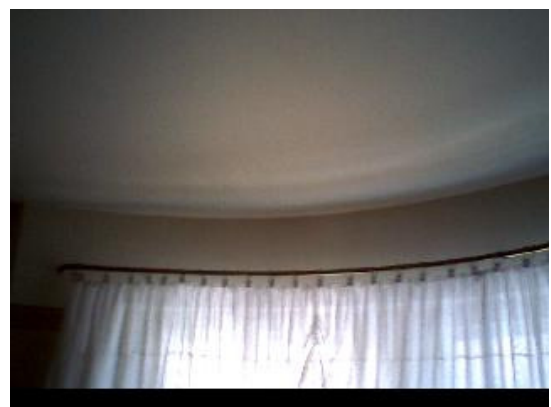
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Korter 12



IR008472.IS2
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Korter 12

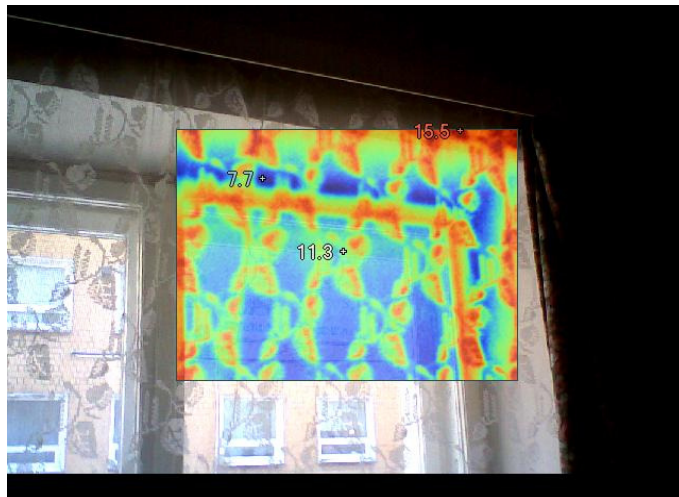


IR008474.IS2

2/17/2011 2:07:42 PM



Korter 12
Külmasild nurgas



IR008476.IS2

2/17/2011 2:07:57 PM



Korter 12



IR008479.IS2

2/17/2011 2:08:46 PM



Korter 12
Külmasild nurgas.



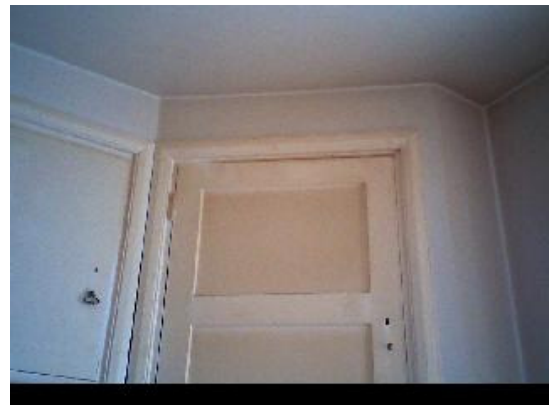
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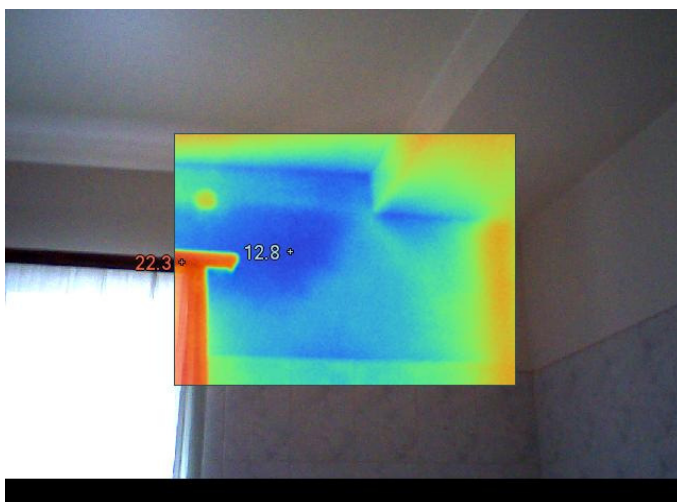
Korter 12
Külmakapp



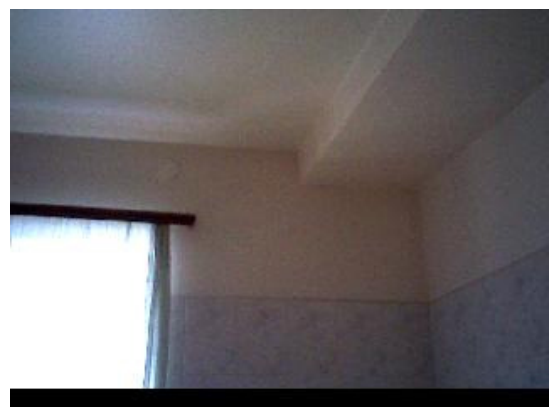
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2/17/2011 2:09:30 PM



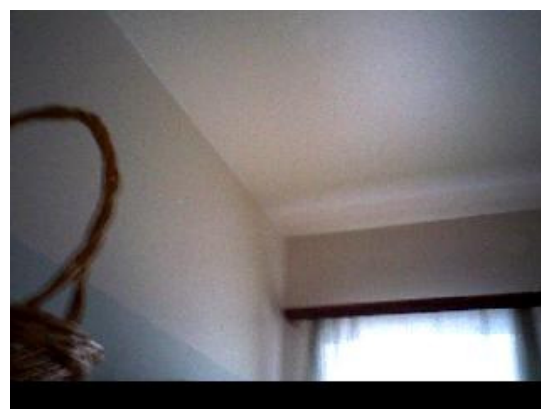
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IR008483.IS2
2/17/2011 2:09:42 PM



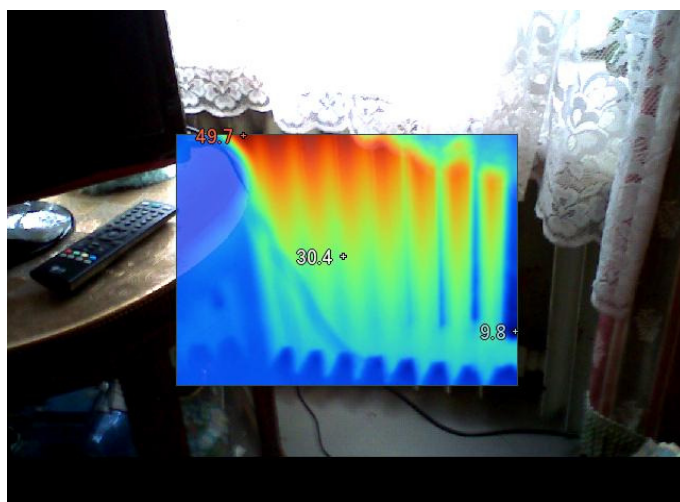
Korter 12



Korter 12

IR008484.IS2

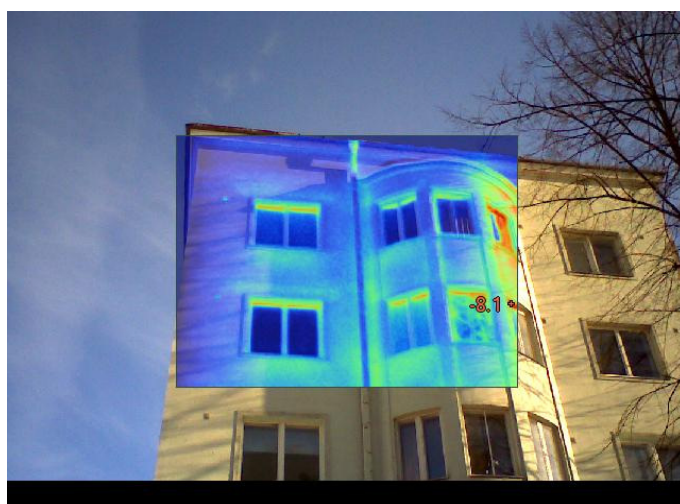
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Korter 19

IR008485.IS2

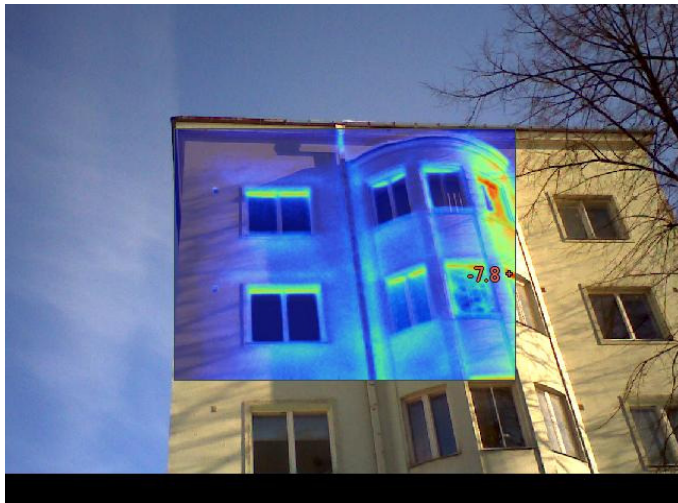
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Visible Light Image

IR008486.IS2

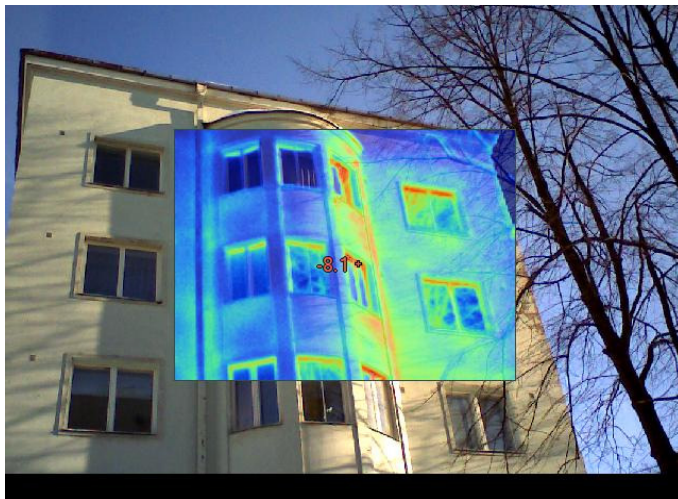
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2/17/2011 2:16:19 PM



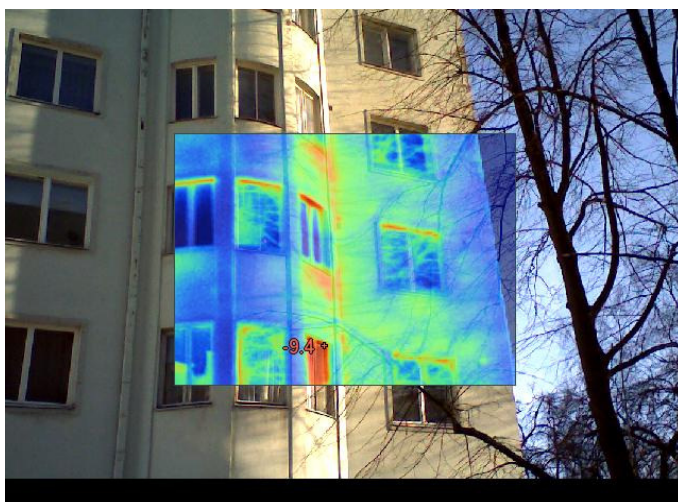
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IR008488.IS2
2/17/2011 2:16:26 PM



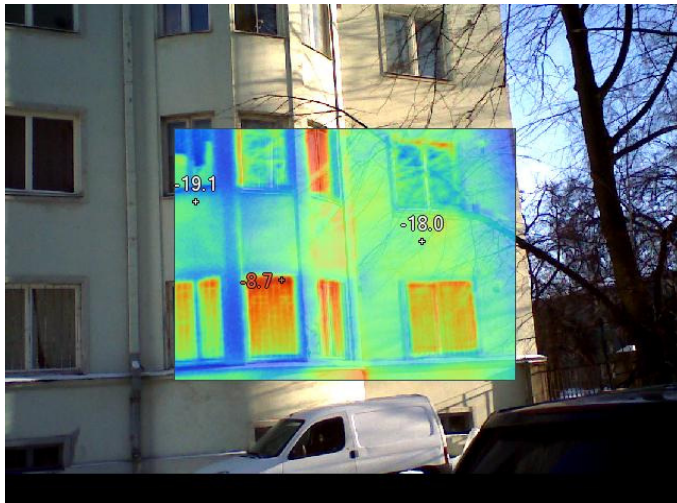
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2/17/2011 2:16:30 PM



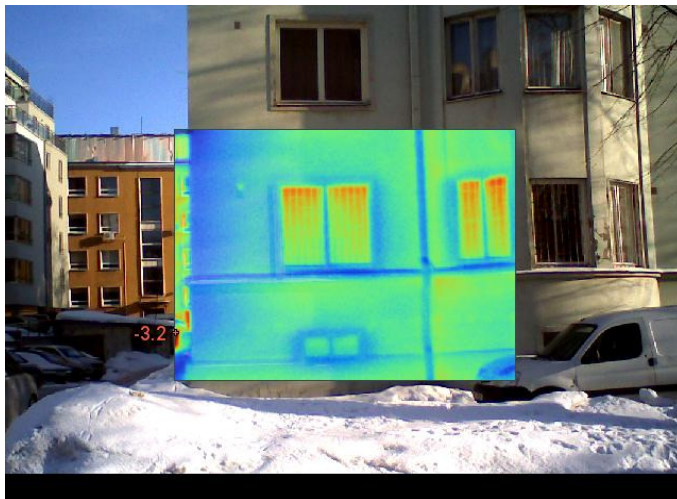
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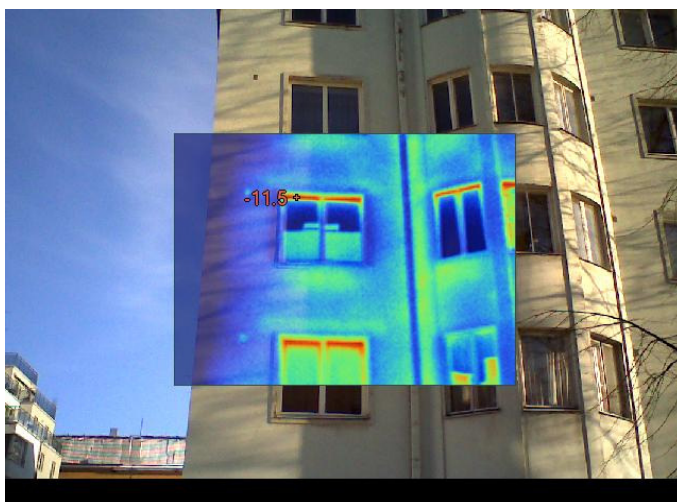
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IR008491.IS2
2/17/2011 2:16:39 PM



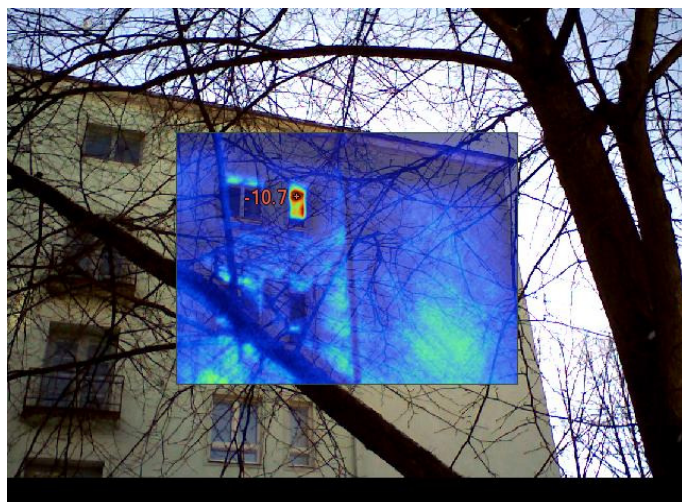
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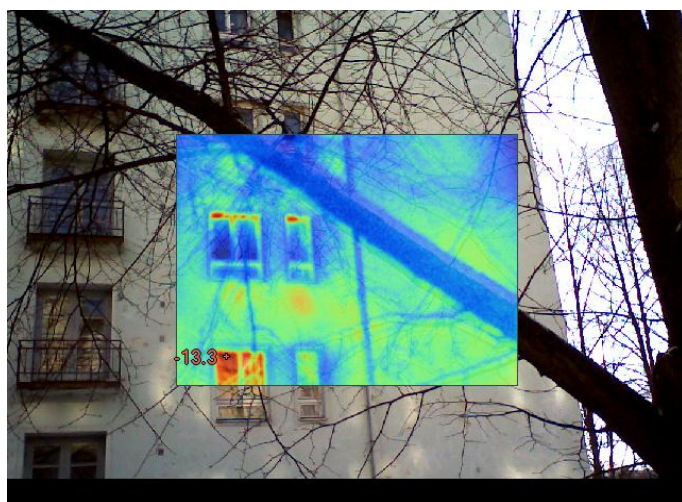
Visible Light Image



Visible Light Image

IR008495.IS2

2/17/2011 2:18:13 PM



Hoone välissein
Kütteradiaatorid paistvad läbi, mis
viitab seina viletsa soojapidavusele

IR008497.IS2

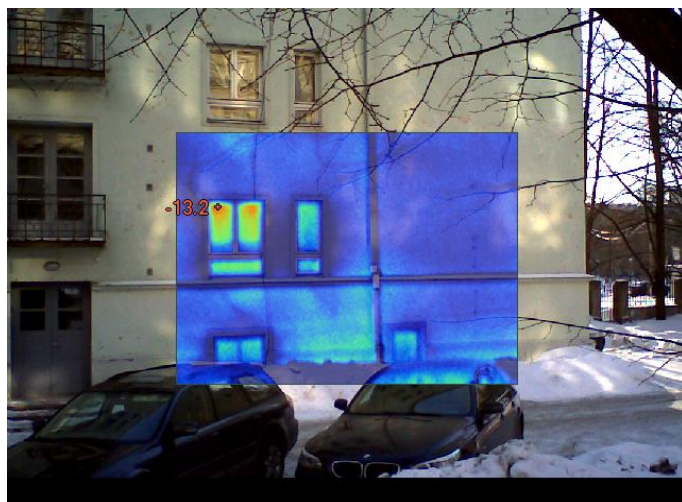
2/17/2011 2:18:21 PM



Hoone välissein
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viitab seina viletsa soojapidavusele

IR008498.IS2

2/17/2011 2:18:30 PM



IR008499.IS2

2/17/2011 2:18:59 PM



Visible Light Image



IR008500.IS2

2/17/2011 2:19:10 PM



Visible Light Image

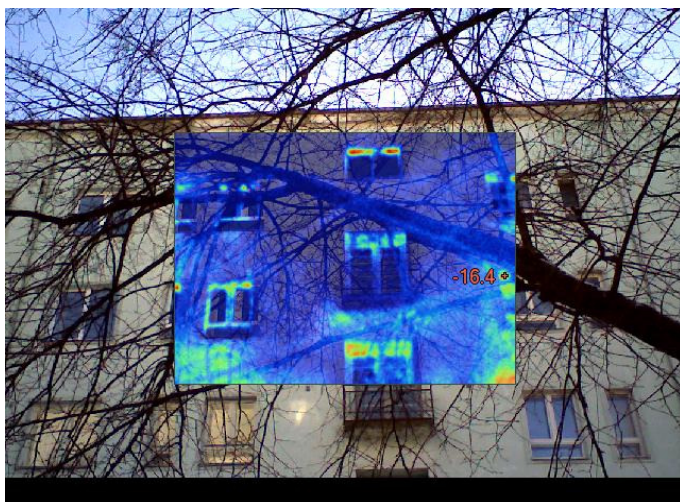


IR008501.IS2

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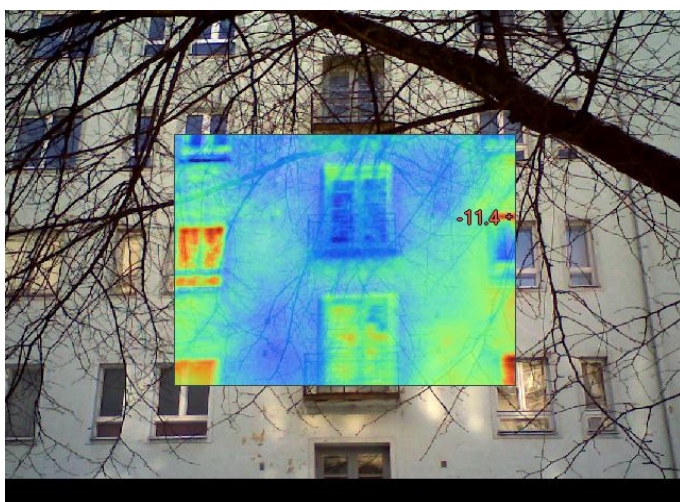


IR008502.IS2

2/17/2011 2:19:36 PM



Visible Light Image



IR008503.IS2

2/17/2011 2:19:38 PM



Visible Light Image



IR008504.IS2

2/17/2011 2:19:42 PM



Hoone välissein
Kütteradiaatorid paistvad läbi, mis
viitab seina viletsa soojapidavusele



IR008505.IS2

2/17/2011 2:19:44 PM



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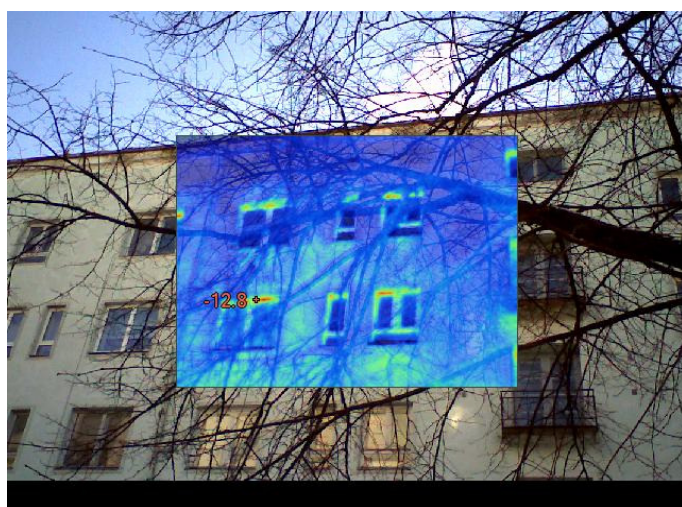


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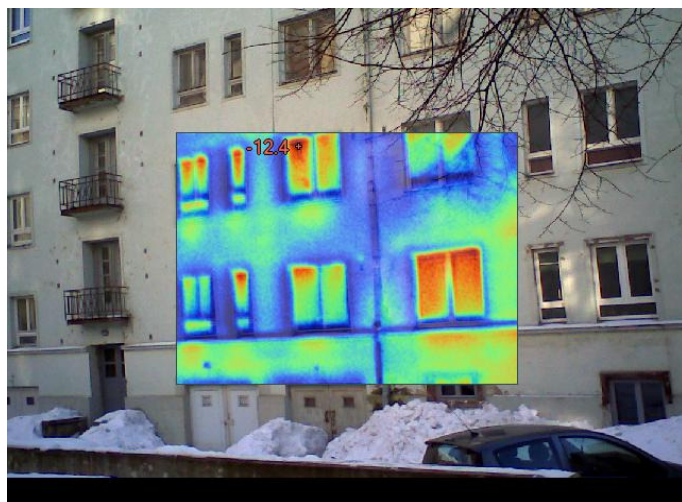


IR008507.IS2

2/17/2011 2:19:51 PM



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IR008508.IS2
2/17/2011 2:19:56 PM



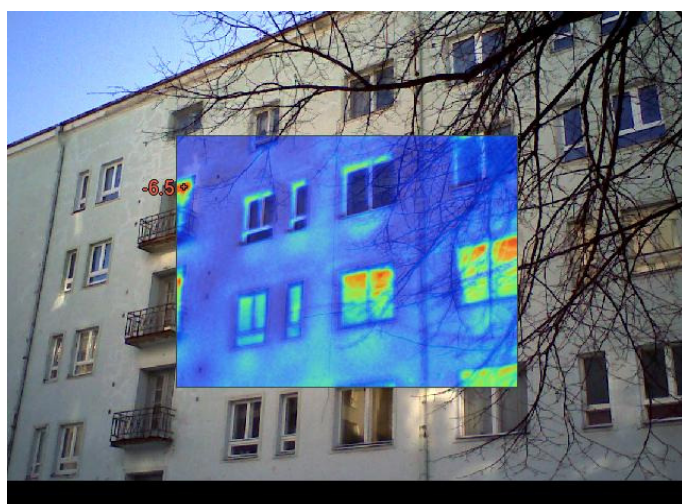
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viitab seina viletsa soojapidavusele



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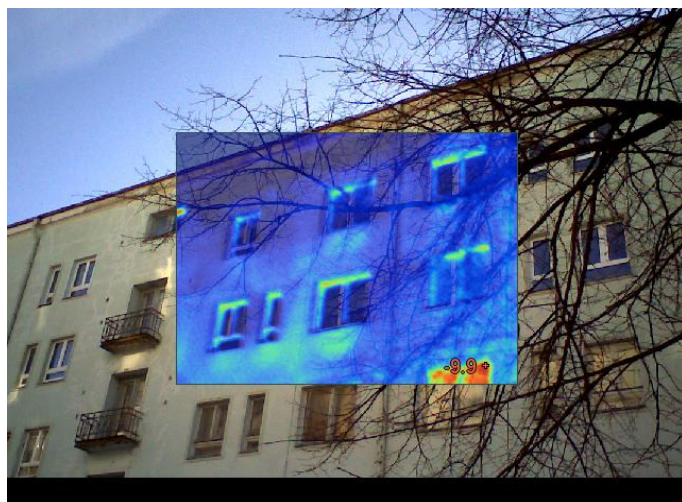
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viitab seina viletsa soojapidavusele



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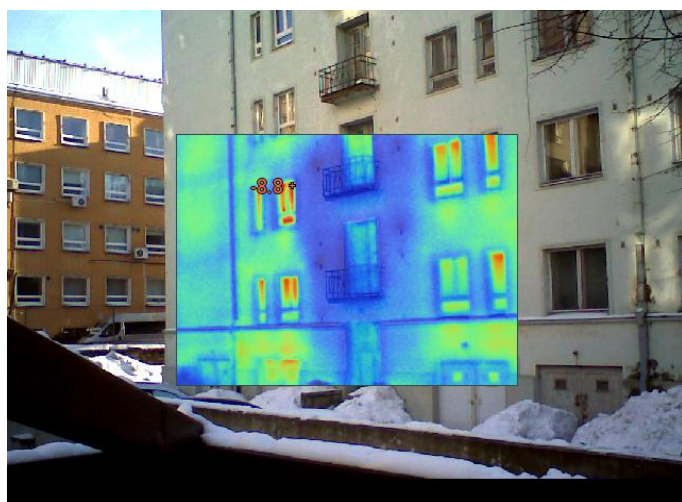
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Kütteradiaatorid paistvad läbi, mis
viitab seina viletsa soojapidavusele



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2/17/2011 2:20:06 PM



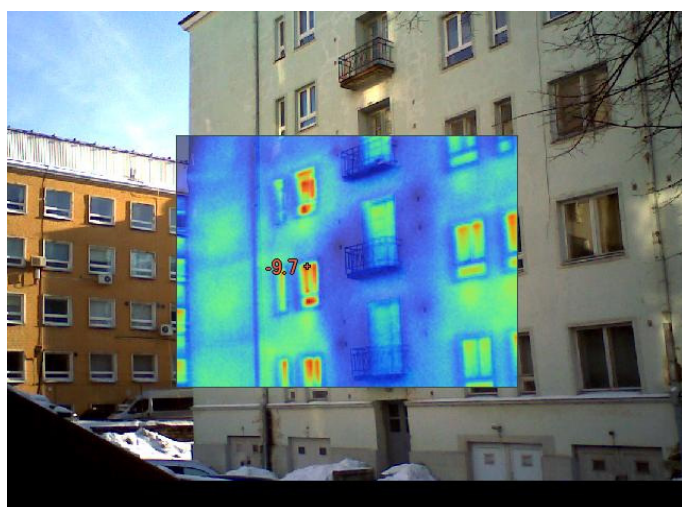
Visible Light Image



IR008512.IS2
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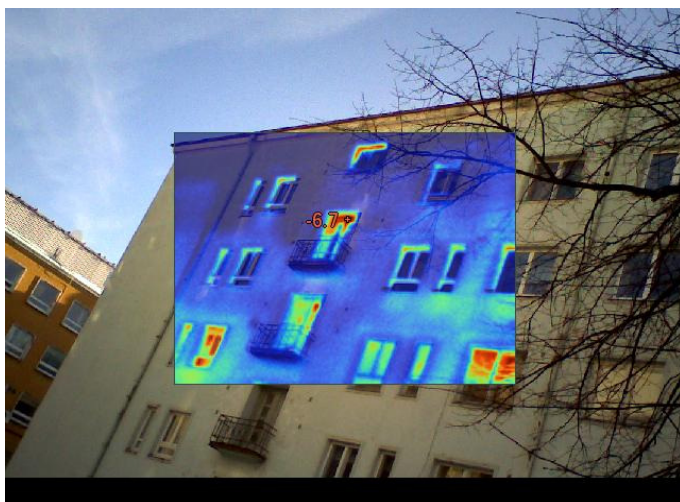
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Kütteradiaatorid paistvad läbi, mis
viitab seina viletsa soojapidavusele



IR008513.IS2
2/17/2011 2:20:22 PM



Hoone välissein
Kütteradiaatorid paistvad läbi, mis
viitab seina viletsa soojapidavusele

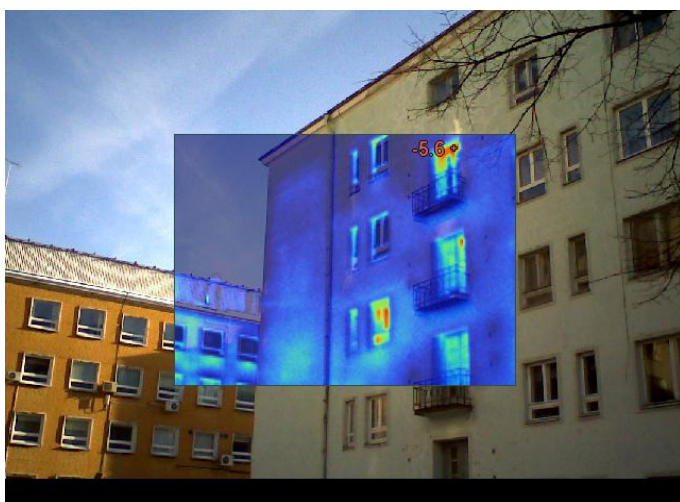


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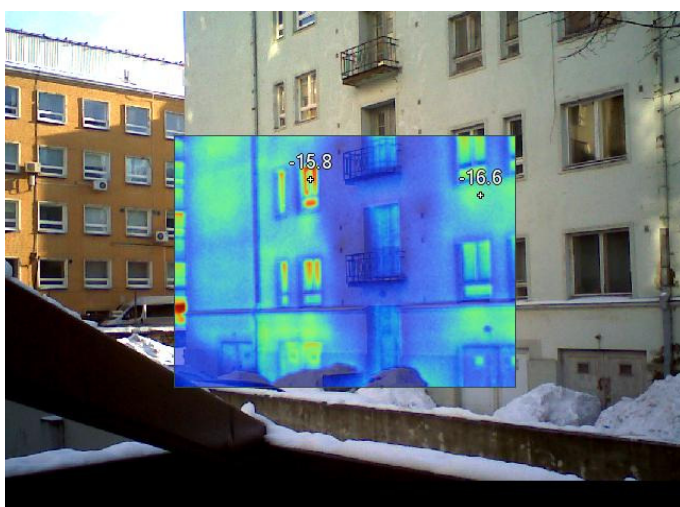


IR008517.IS2

2/17/2011 2:20:52 PM



Visible Light Image

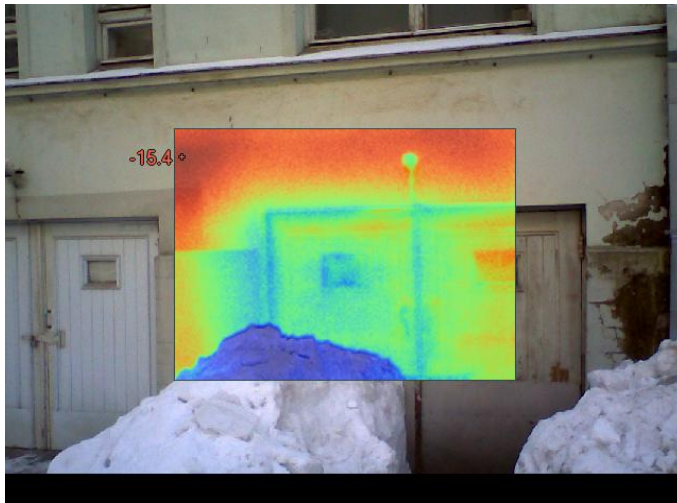


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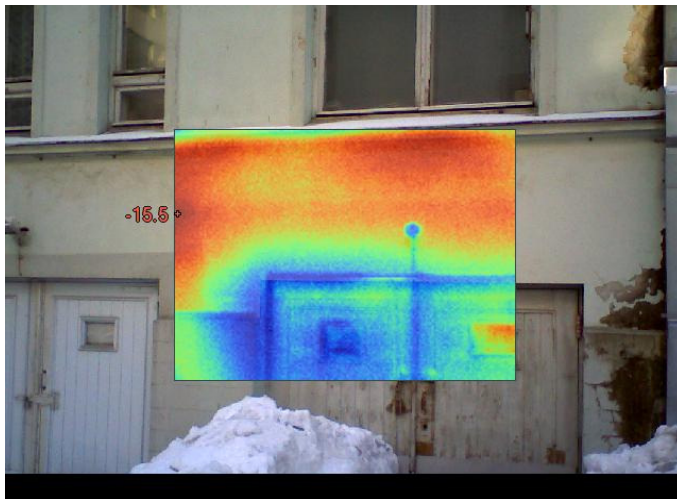
Hoone välissein
Kütteradiaatorid paistvad läbi, mis
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Visible Light Image

IR008519.IS2

2/17/2011 2:21:26 PM



Visible Light Image

IR008520.IS2

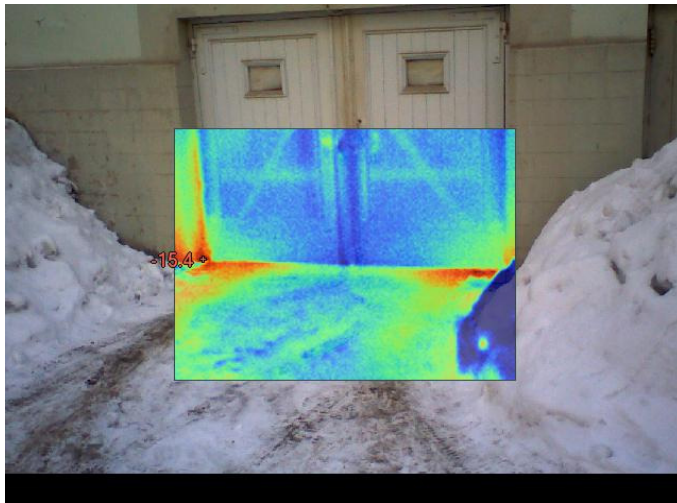
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Visible Light Image

IR008523.IS2

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Visible Light Image

IR008524.IS2

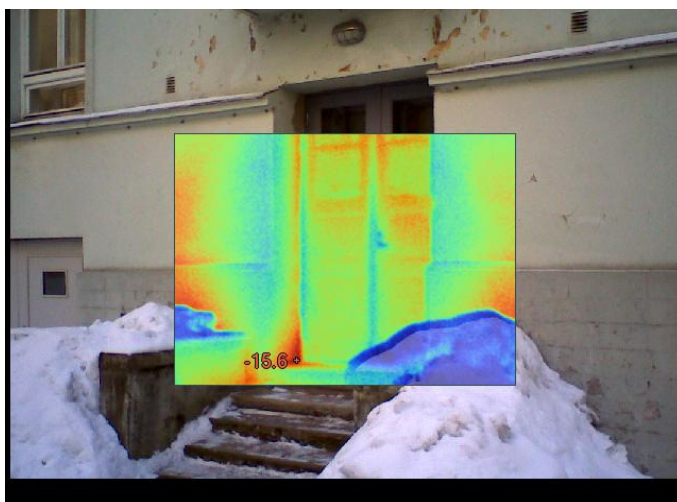
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Visible Light Image

IR008525.IS2

2/17/2011 2:21:57 PM



Visible Light Image

IR008526.IS2

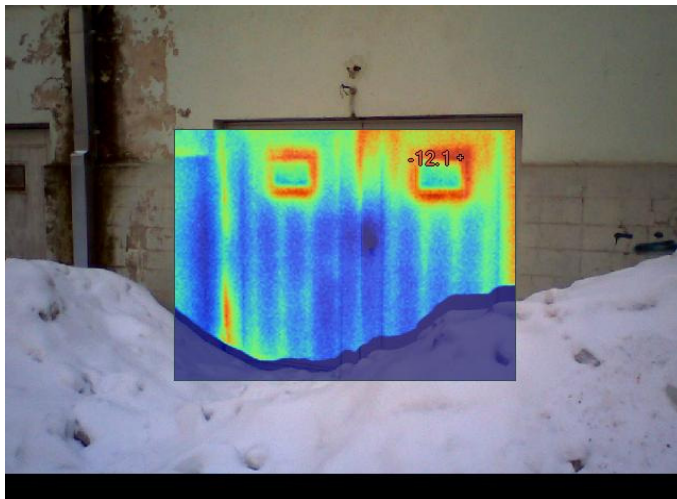
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2/17/2011 2:22:10 PM



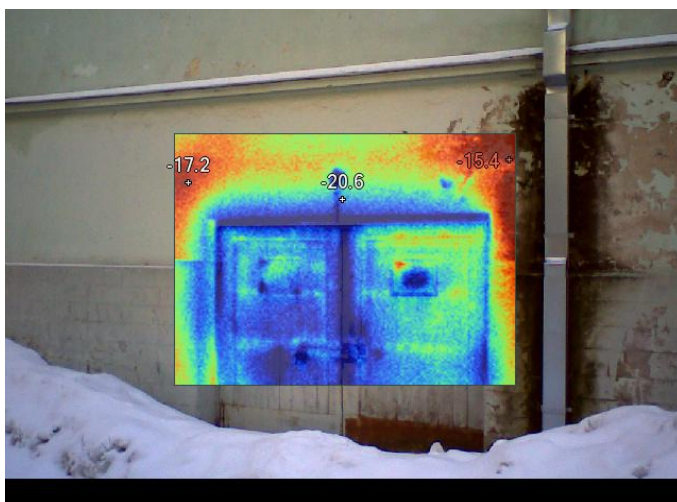
Graaži uks
Ukse tihend laseb soojuste välja.



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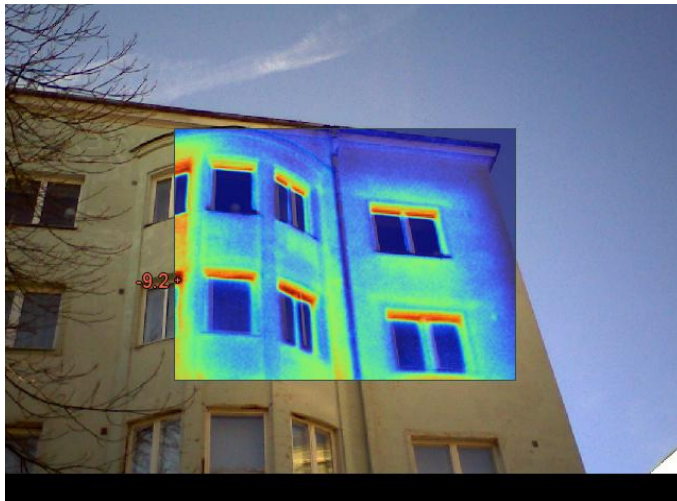
Visible Light Image



IR008529.IS2
2/17/2011 2:22:31 PM



Visible Light Image



Visible Light Image

IR008530.IS2

2/17/2011 2:24:24 PM



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IR008531.IS2

2/17/2011 2:24:40 PM



Visible Light Image

IR008532.IS2

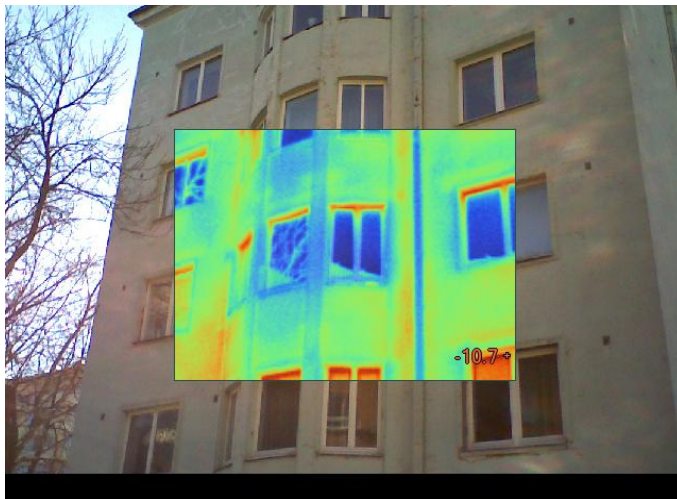
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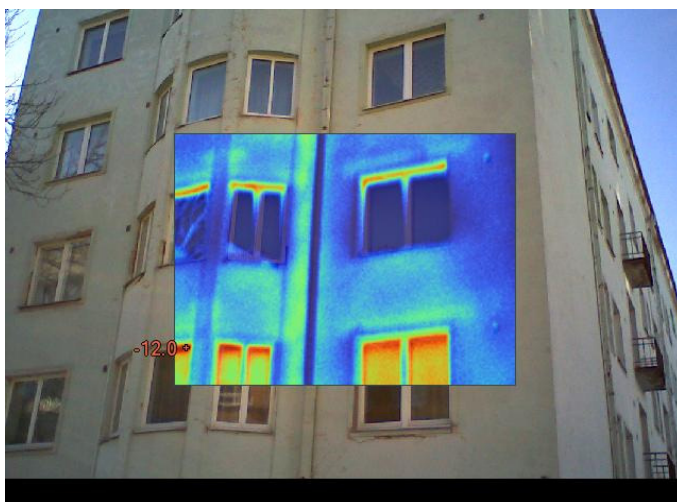
Hoone välissein
Kütteradiaatorid paistvad läbi, mis
viitab seina viletsa soojapidavusele



IR008534.IS2
2/17/2011 2:25:11 PM



Visible Light Image



IR008535.IS2
2/17/2011 2:25:16 PM



Visible Light Image

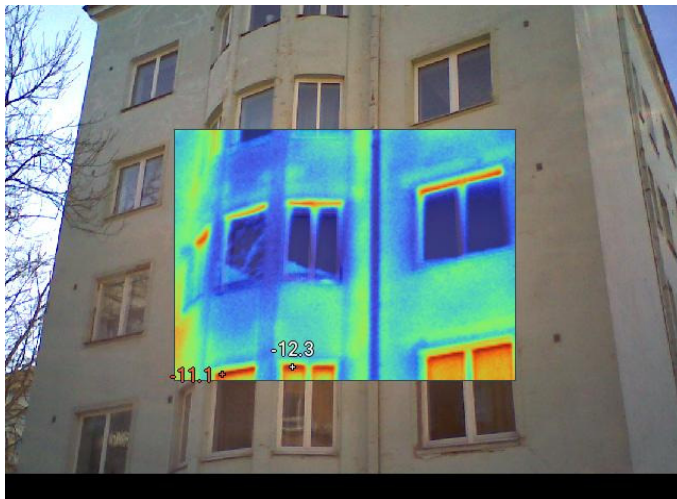


IR008536.IS2

2/17/2011 2:25:20 PM



Hoone välissein
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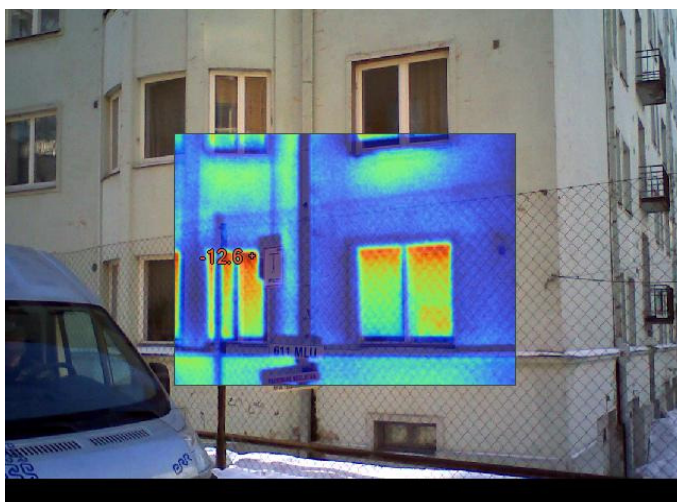


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2/17/2011 2:25:27 PM



Visible Light Image

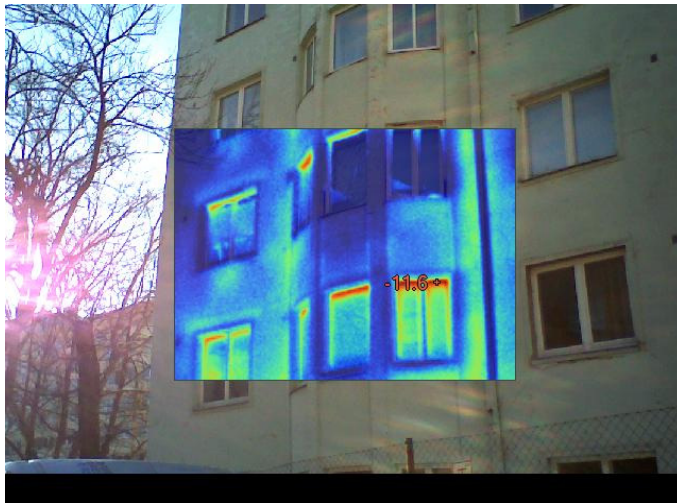


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2/17/2011 2:25:30 PM



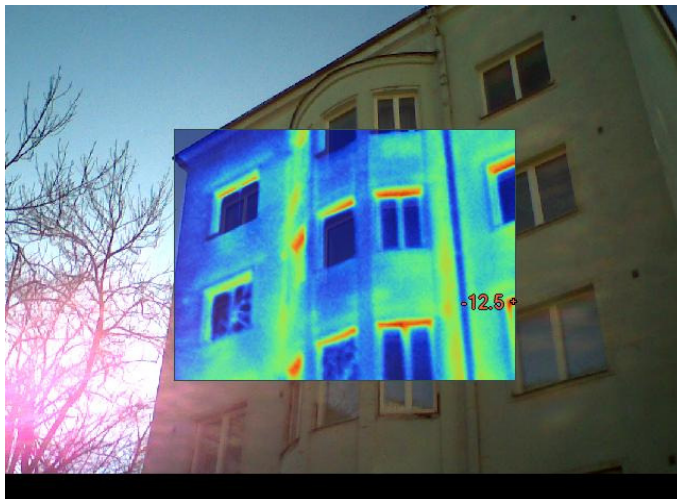
Hoone välissein
Kütteradiaatorid paistvad läbi, mis
viitab seina viletsa soojapidavusele



Visible Light Image

IR008539.IS2

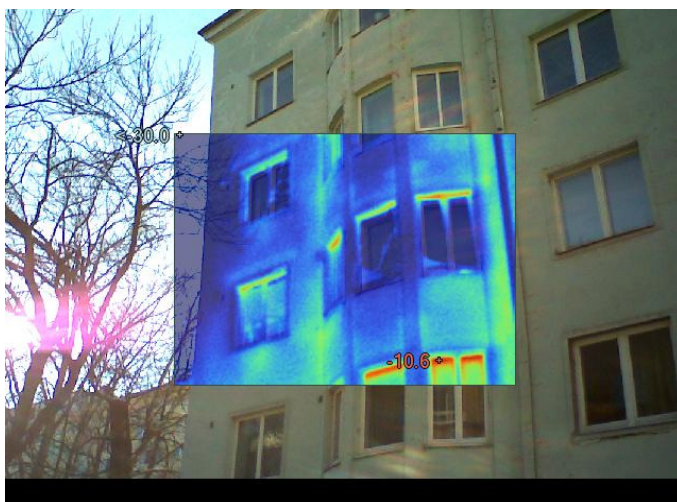
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Visible Light Image

IR008540.IS2

2/17/2011 2:25:36 PM



Visible Light Image

IR008541.IS2

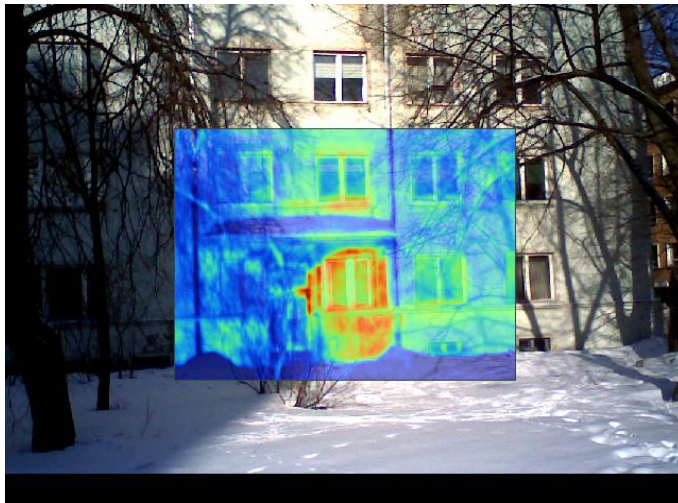
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AS YIT Emico

Madara 27
10612 Tallinn
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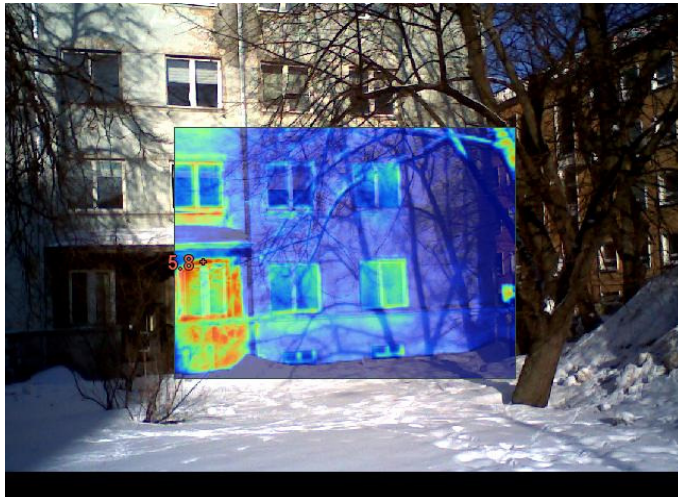
Reg.nr. 10010169
www.yitgroup.com
www.yit.ee



IR008542.IS2
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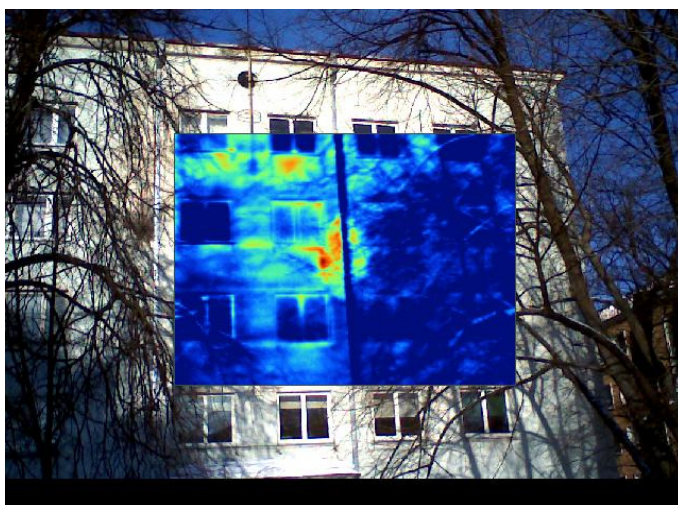
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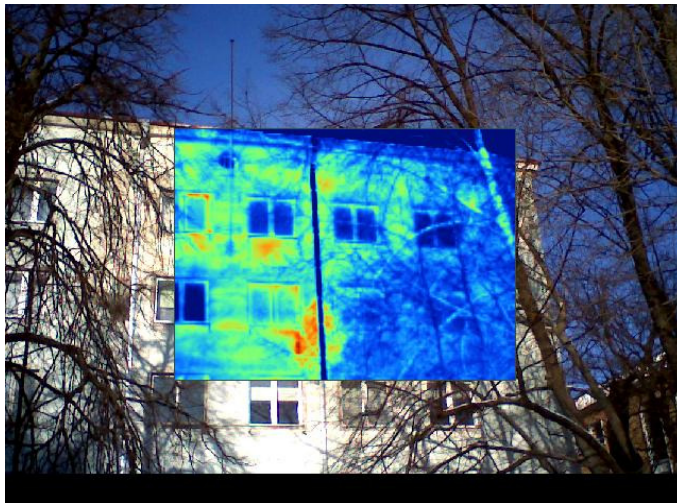
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IR008544.IS2
2/17/2011 2:26:41 PM



Visible Light Image

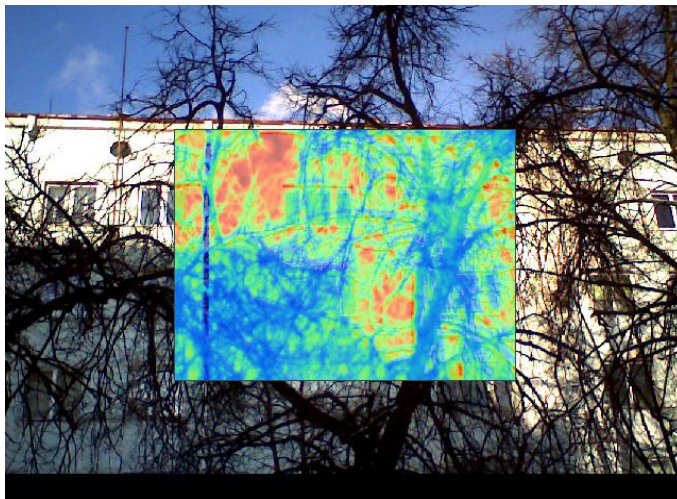


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2/17/2011 2:26:44 PM



Visible Light Image

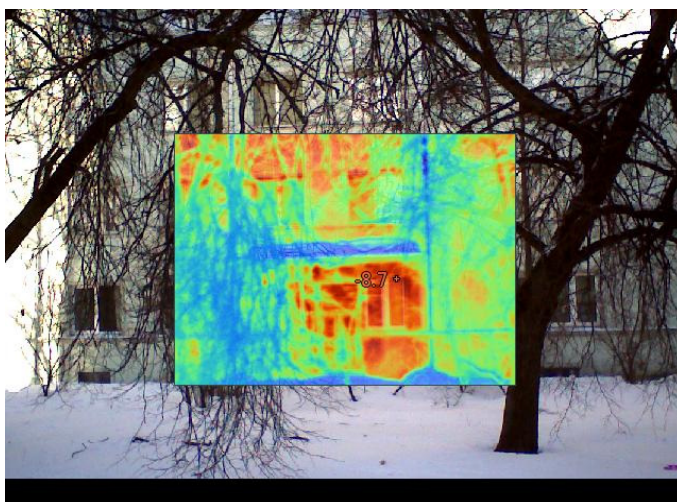


IR008546.IS2

2/17/2011 2:27:12 PM



Visible Light Image



IR008547.IS2

2/17/2011 2:27:19 PM



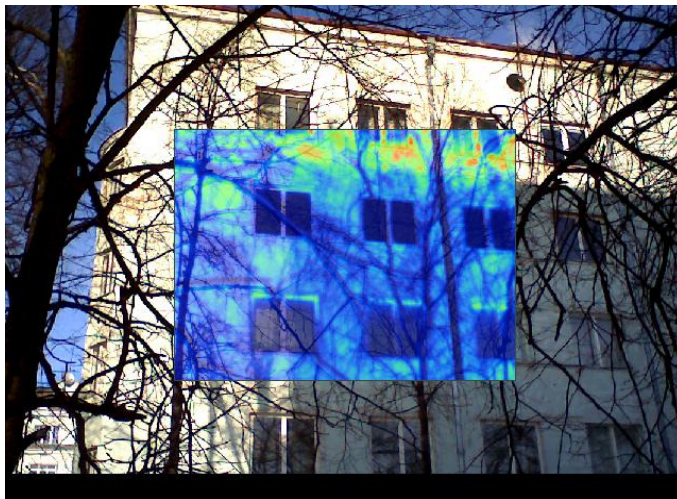
Visible Light Image



Visible Light Image

IR008549.IS2

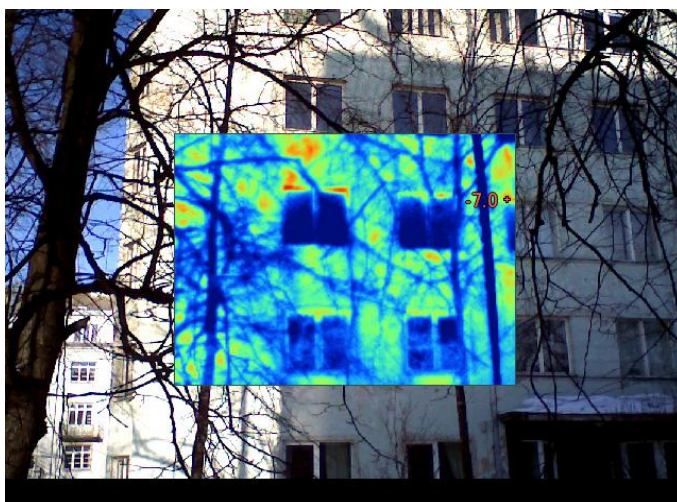
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Visible Light Image

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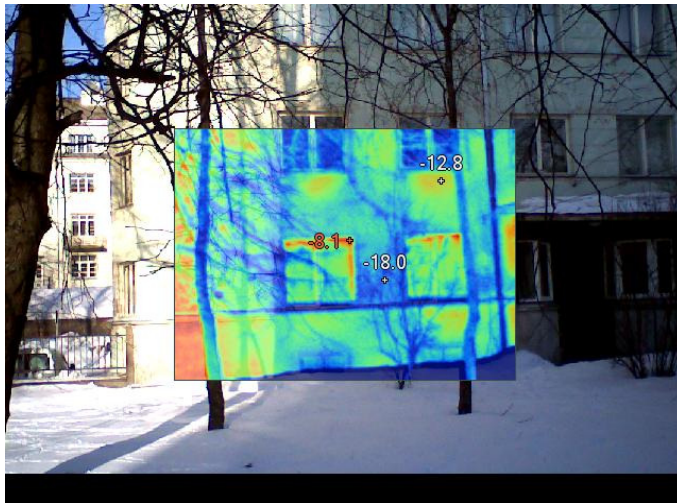
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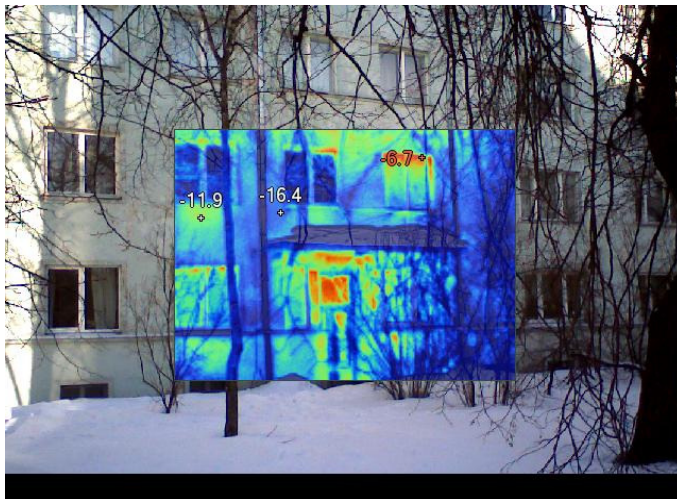
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Visible Light Image

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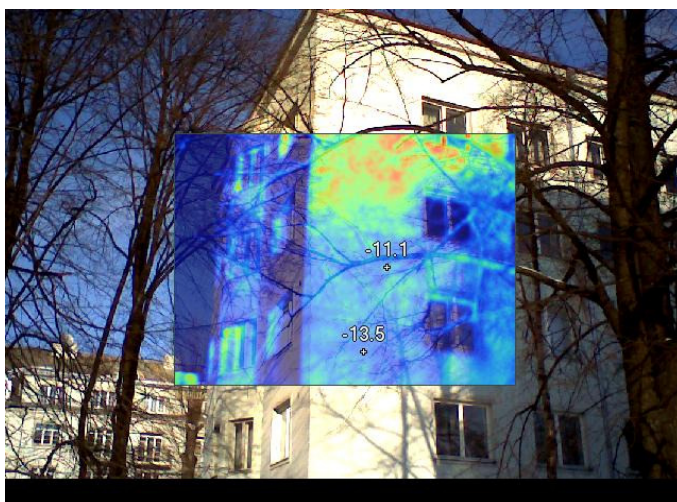
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Visible Light Image

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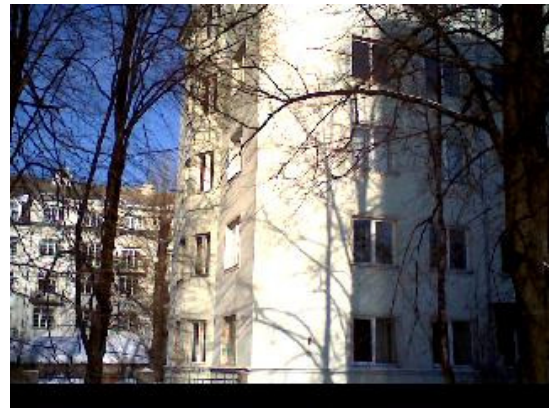
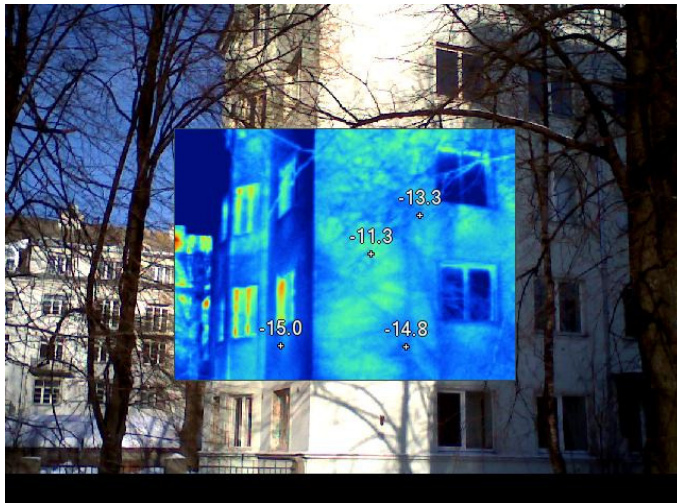
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Visible Light Image

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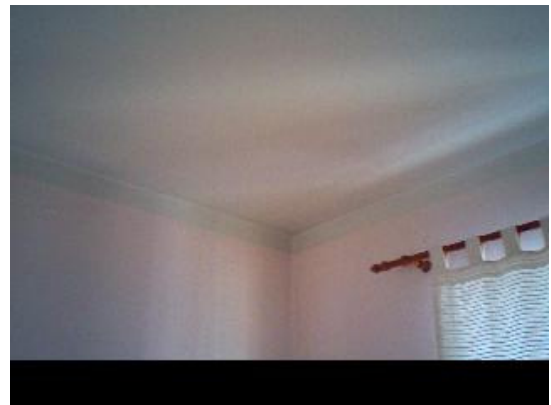
2/17/2011 2:28:17 PM



Visible Light Image

IR008556.IS2

2/17/2011 2:28:20 PM



Korter 5
Külmasild nurgas.

IR008560.IS2

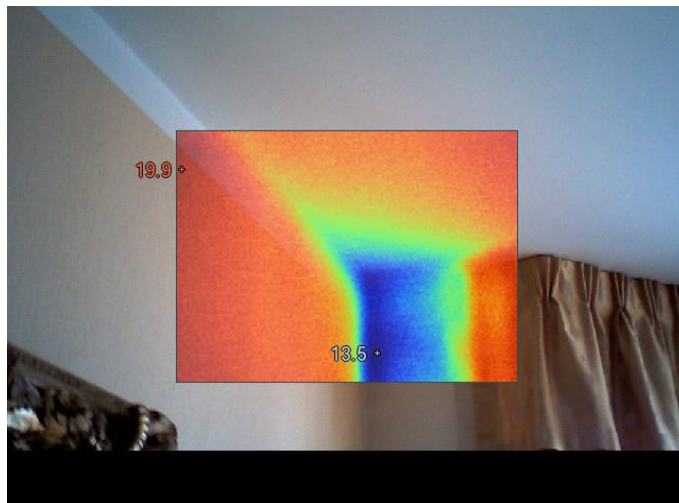
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Korter 5

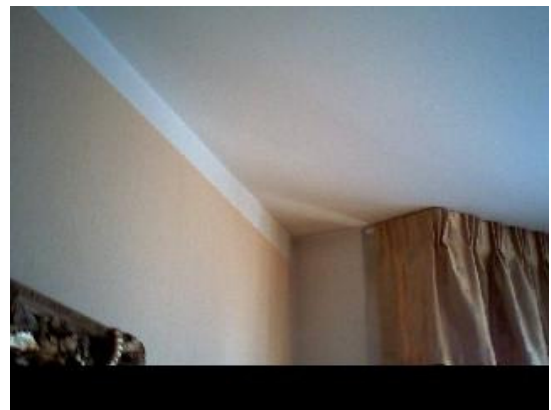
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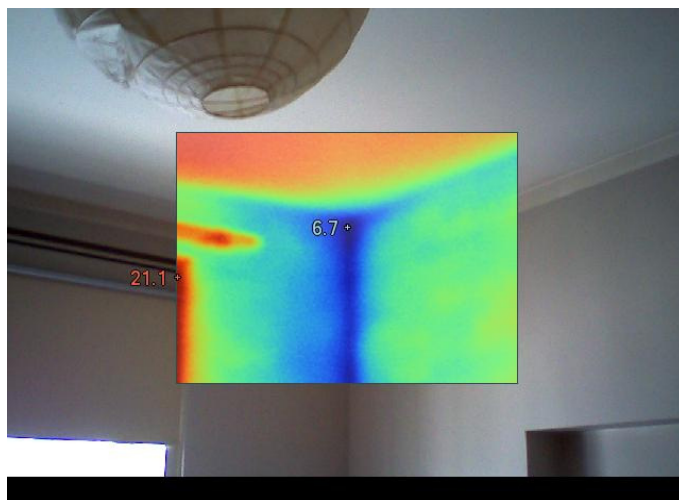


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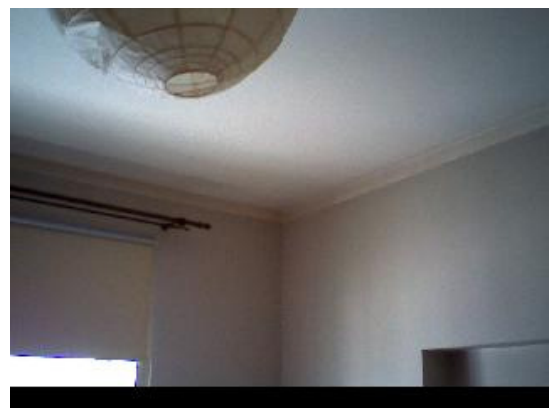


Korter 5

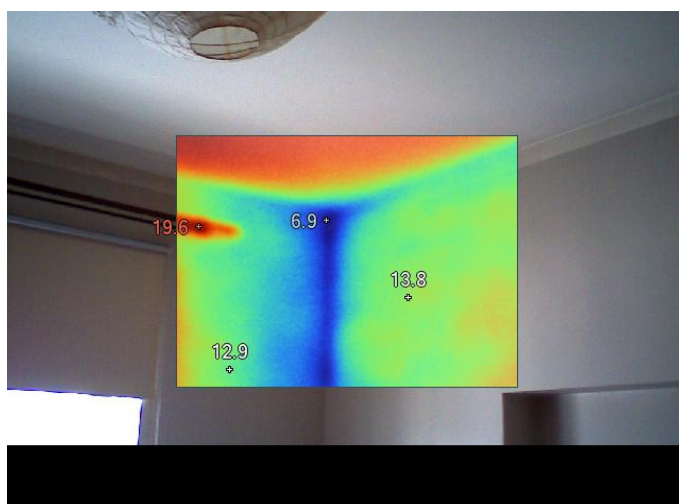


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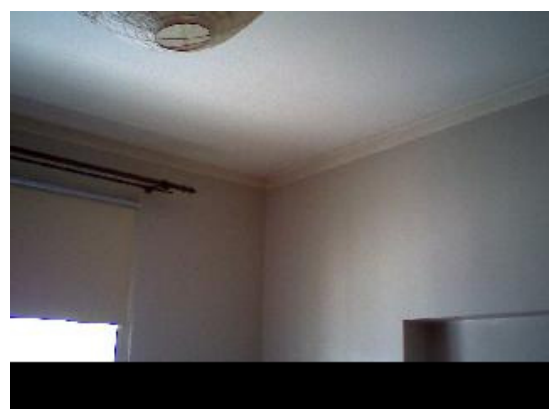


**Korter 5
Külmasild nurgas**

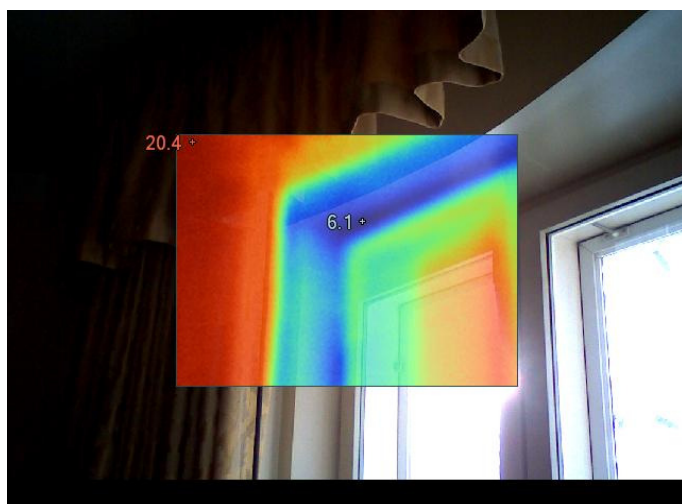


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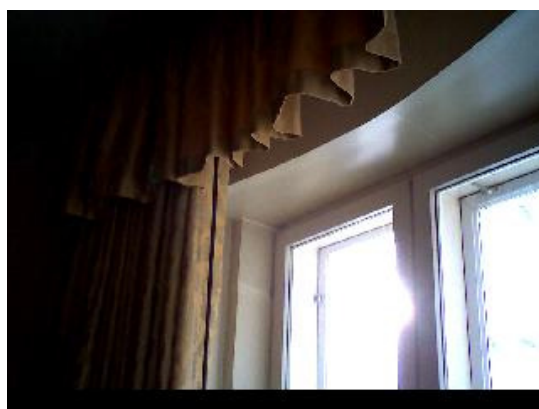


**Korter 5
Külmasild nurgas**



IR008565.IS2

2/17/2011 2:34:05 PM

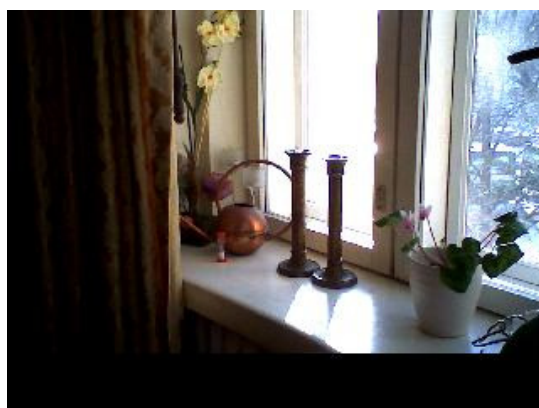


Korter 5

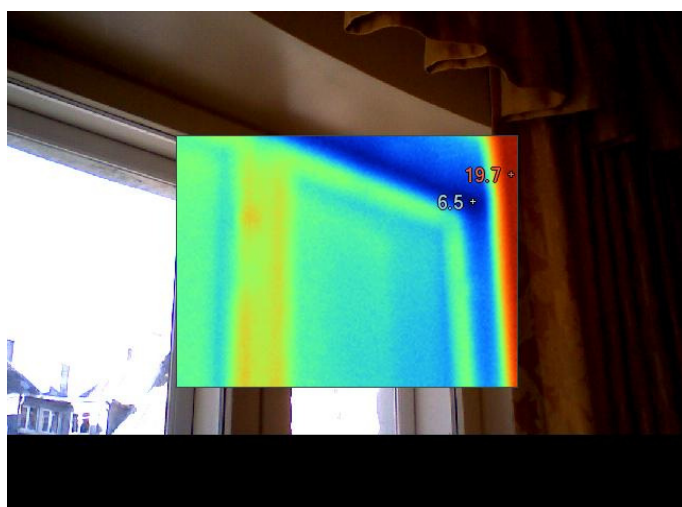


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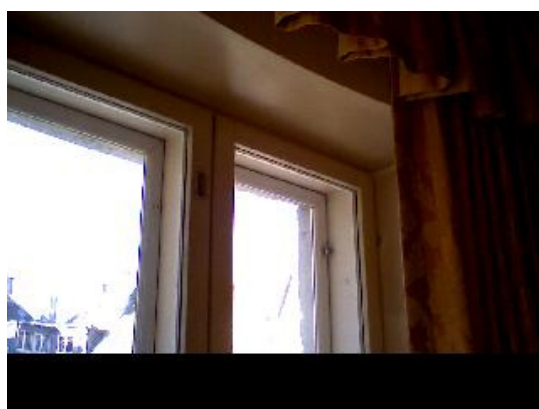


Korter 5
Külmasild aknaraami kohal.

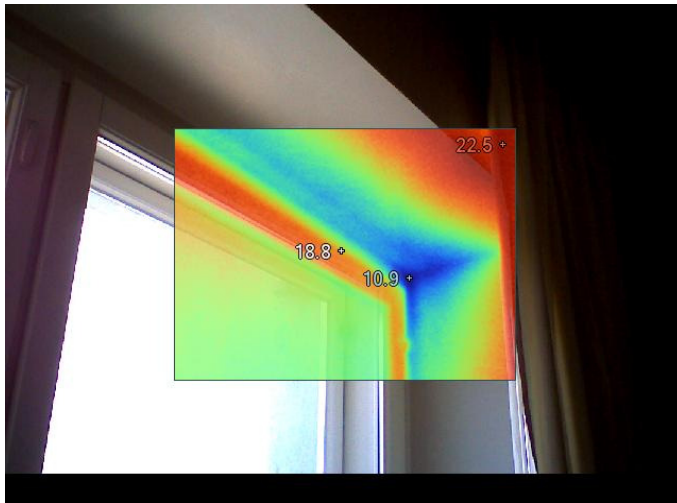


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Korter 5

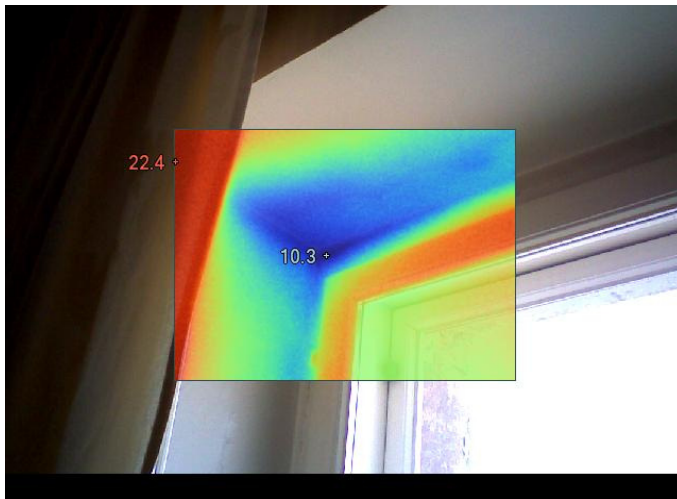


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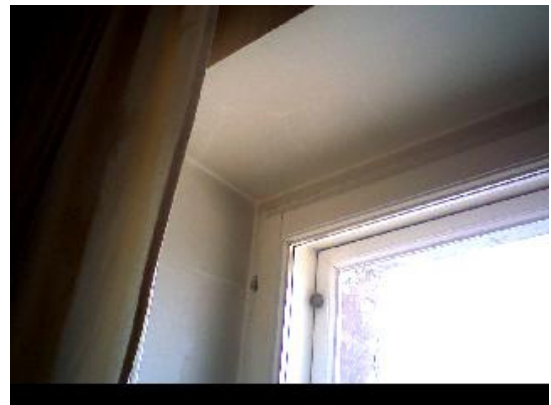


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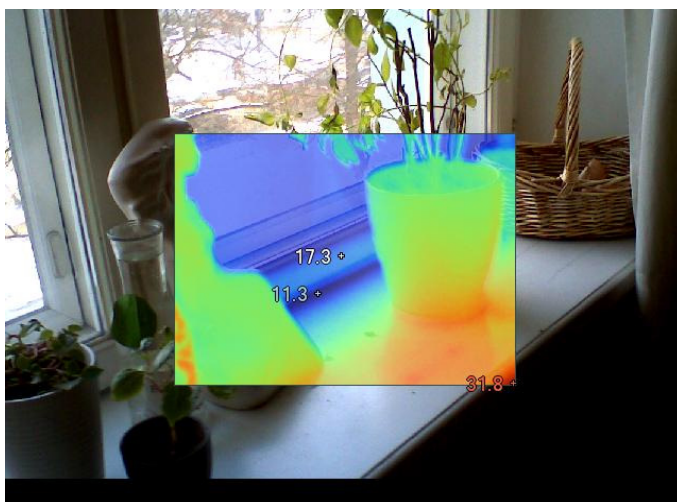


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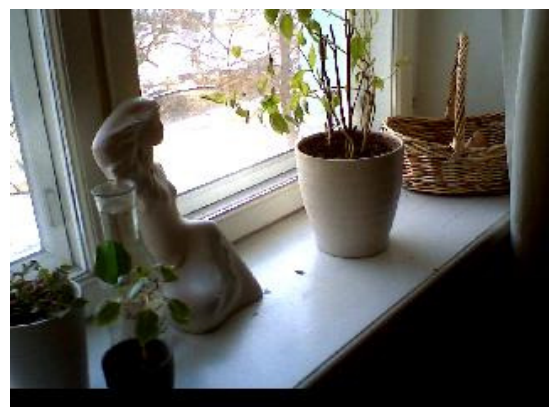


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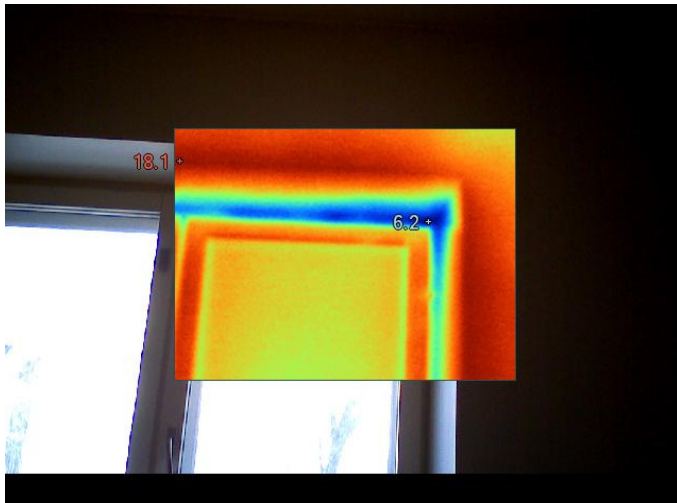


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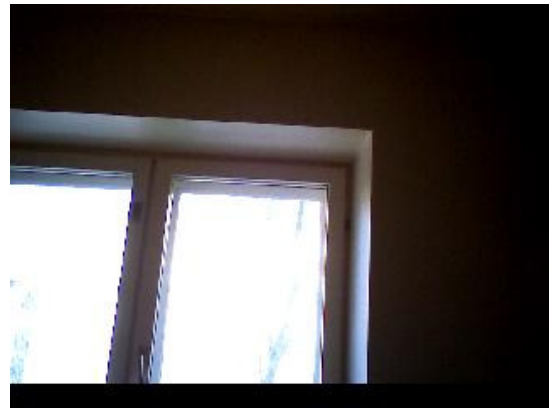
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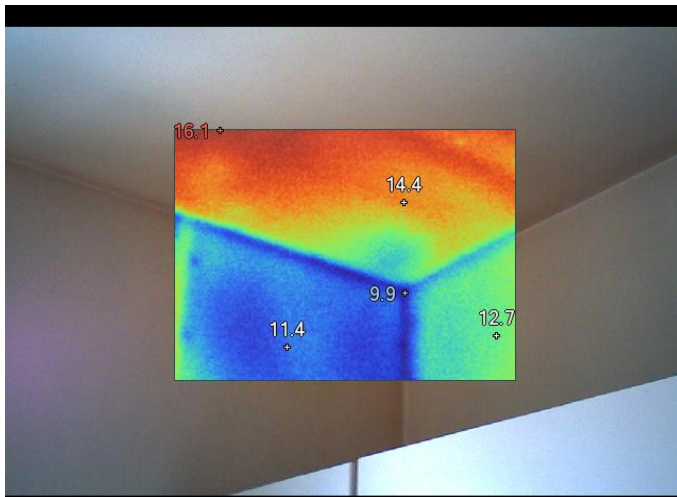
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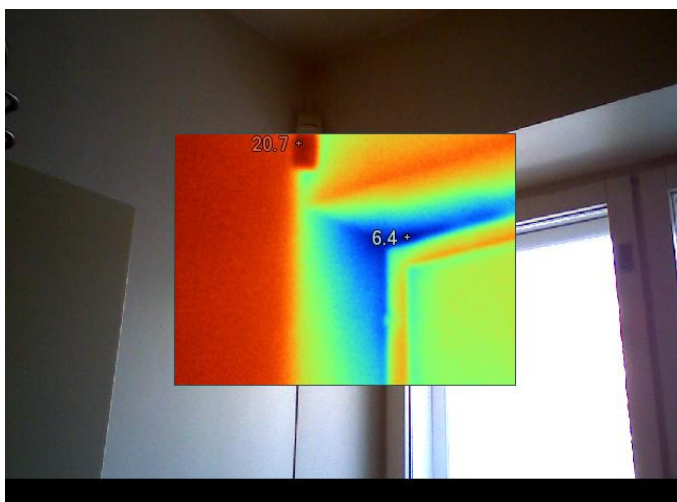
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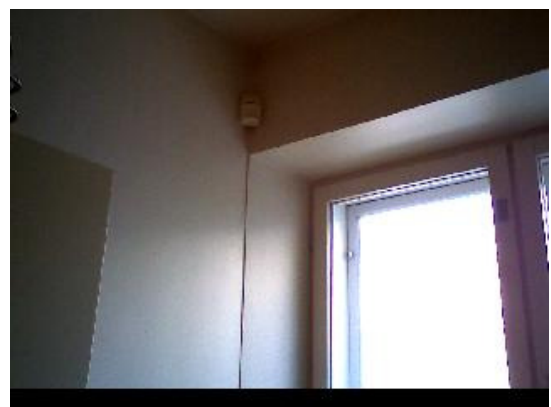
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Korter 5

