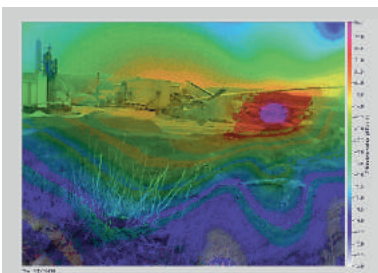
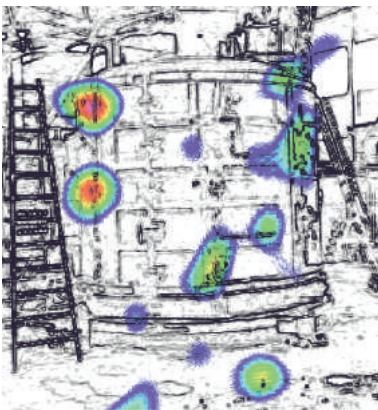


## Acoustic Camera



### Application

- Tool for noise reduction
- Identification of noise sources
- Containment of undesirable sound emissions
- Fault visualisation
- Frequency analysis
- Optimisation of machine developments
- Localisation of rattling, knocking, banging, and hissing noises
- Reveals reflective surfaces and noise transmitted by mechanical vibration
- Quick comprehension through simple display
- Allows a holistic assessment
- Operative range between three and several hundred meters

Noise camera in use

### Technical data

- 36 Microphone channels
- Sampling rate: 12 – 192 kS/channel, 16-bit resolution
- Recording duration: 1 million samples per channel (5 – 87 sec.)
- USB camera (to 1280 x 960) with a fixed focus lens
- Mapping from 100 Hz – 7 kHz (> 6 dB)
- Typical measurement distance 3 – 300 m
- Dynamic range of the microphone: 35 – 130 dB, 30 Hz – 20 kHz (50 kHz)

Noise emission from rock breaking

### IAB Weimar gGmbH

Über der Nonnenwiese 1  
99428 Weimar

### Dipl.-Ing. Markus Walter

Head of Department  
Measurement and  
automation technology

☎ +49.3643.8684-122

✉ +49.3643.8684-113

m.walter@iab-weimar.de  
www.iab-weimar.de