INFRALOG

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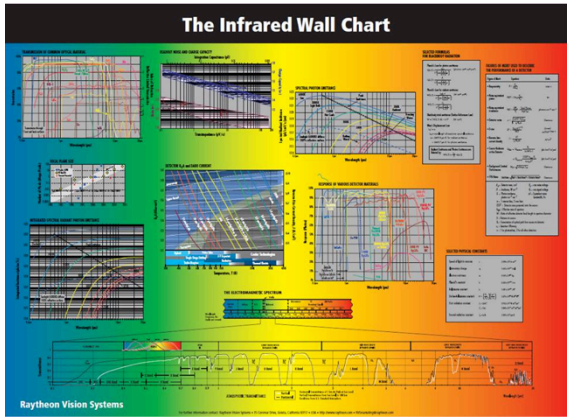
Raytheon

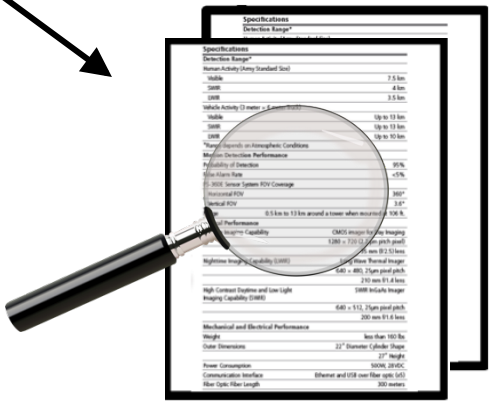
Goal: Make the search for technology as advanced as the technology itself.

Current Situation

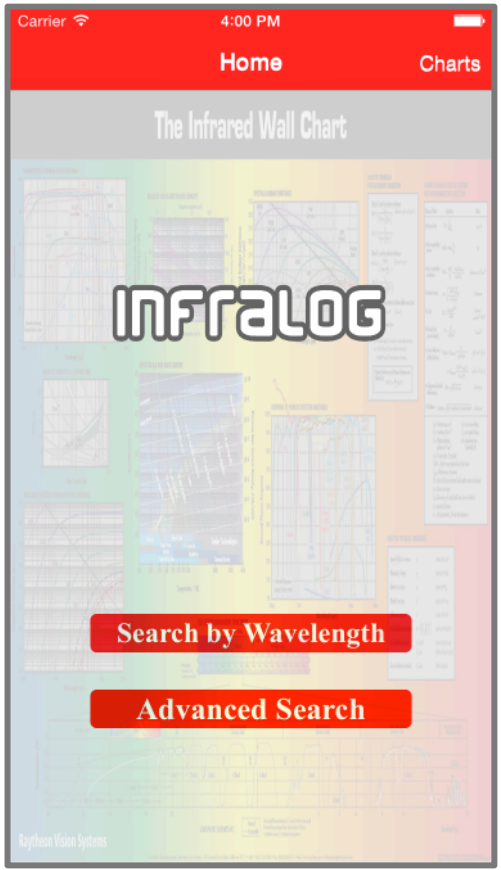


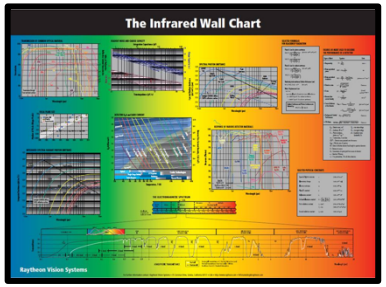
The Infrared Wall Chart

Product Information Sheets

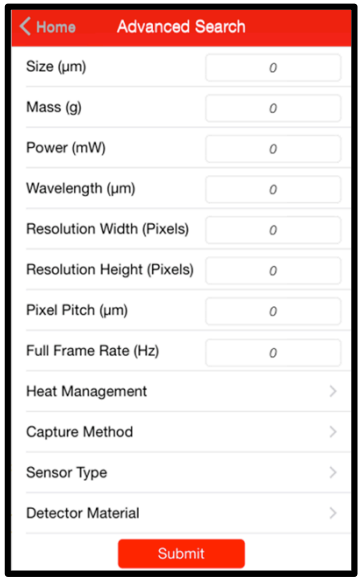


Raytheon Representative





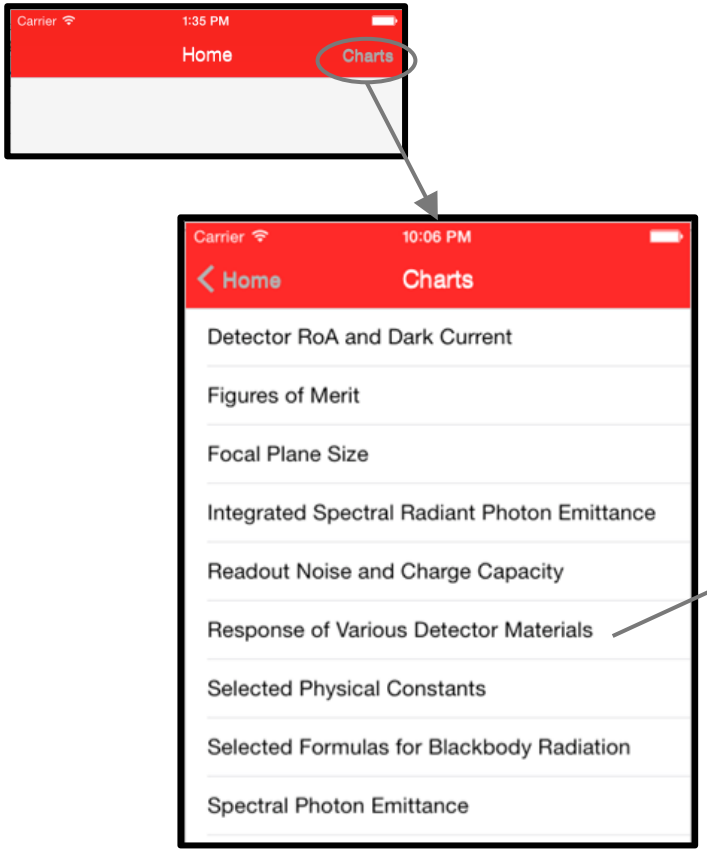
1. Information Charts

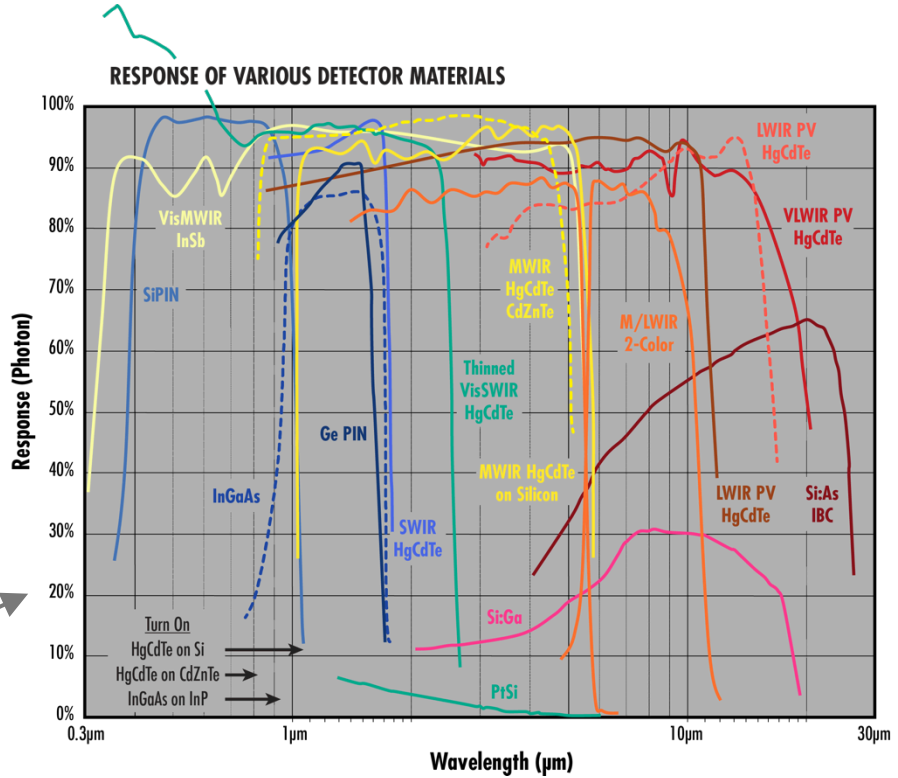


2. Filterable Database

3. Product Previews

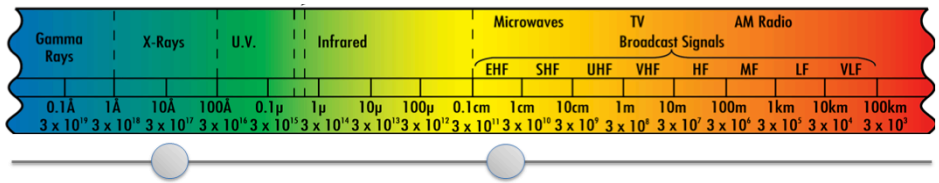
Information Charts





Filterable Database

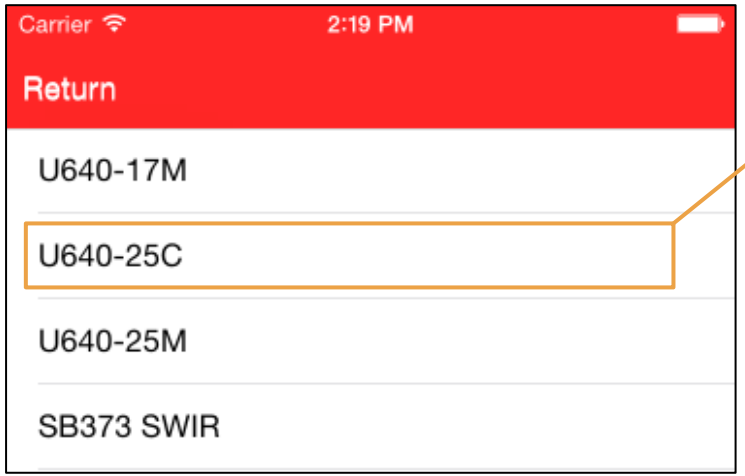
Two possible ways to search for products that match the customer's requirements.



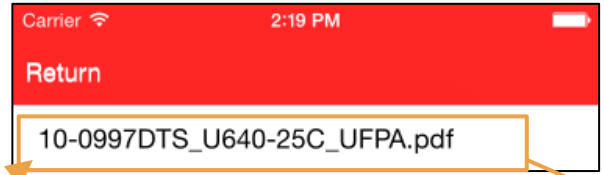
Search by wavelength

Advanced Search

Product Previews



All products matching specified criteria are listed for customer

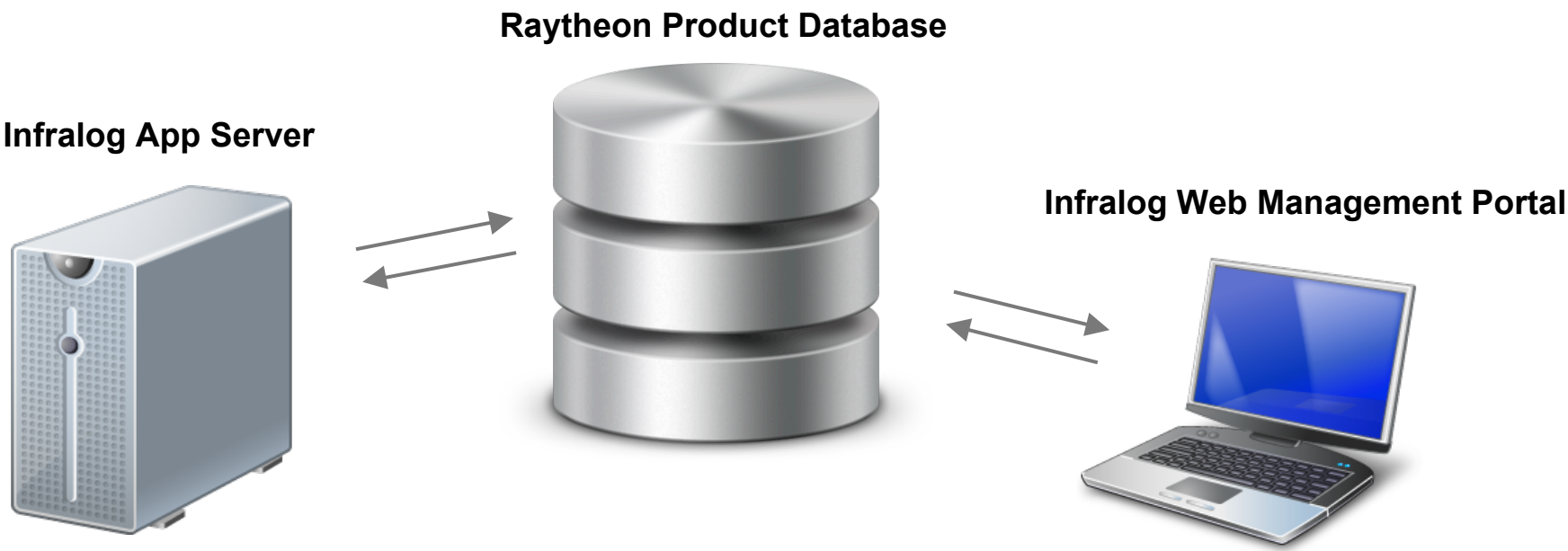


Selecting a product shows all of its associated datasheets.

Selecting a datasheet displays its specification sheet.

Application Demo

Backend


Raytheon Product Database
Infralog App Server
Infralog Web Management Portal

Server > Raytheon File Distribution Protocol

R
F
D
P

What & Why:

- The RFDP Server serves two main purposes:
  - Allow users to search through Raytheon Products remotely
  - Transmit product information to Infralog users upon request

How:

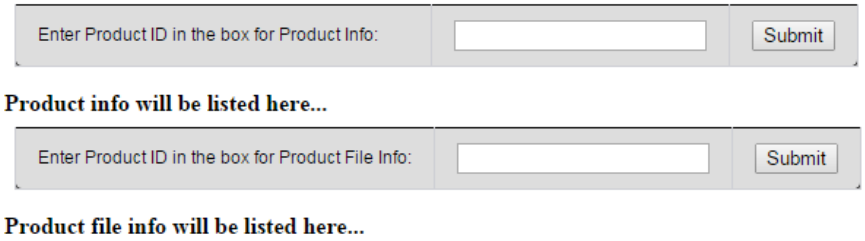
- PyMySQL v0.6
  - The Official MySQL connector is not compatible with Python 3.4.3
- TCP Multi-threaded Socket Handling
  - Allows for multiple users at once

Database

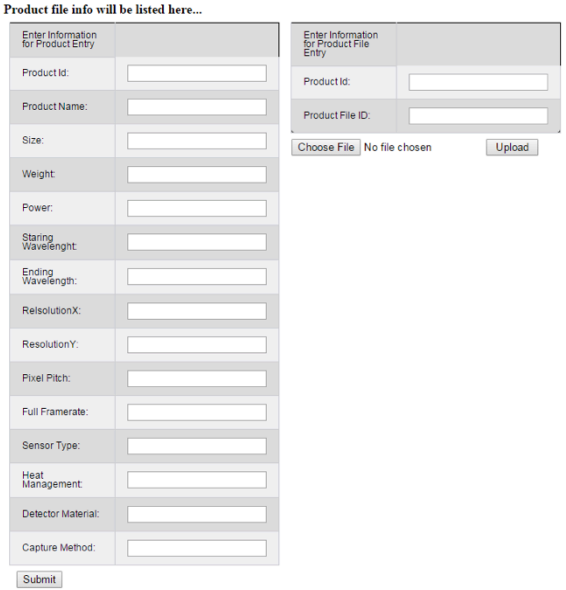
- Facilitates communication between the Infralog App Server and the Infralog Web Backend
- Store all products and their relevant information
- Powered by MySQL

Backend Interface

- Allows business-end user to view the database and update entries.
- Built in PDF extractor to help supply suggestions for product



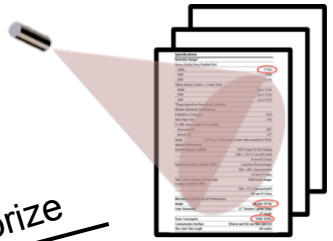
Tabled fields for ease of input



PDF Extraction

PDF → .TXT

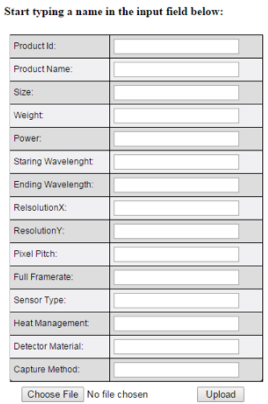
Extract Values



Categorize

Product Name	PS-XYZ	
Power	X	Watts
Pixel Pitch	Y1, Y2, Y3, Y4	Length
Resolution	A x B	Integers

Add Entry



Backend Demo

INFRALOG

Acknowledgements:

Raytheon
Raytheon Vision Systems
UCSB CS Capstone
Chandra Krintz
Tim Sherwood
Kyle Jorgensen
Janet Kayfetz