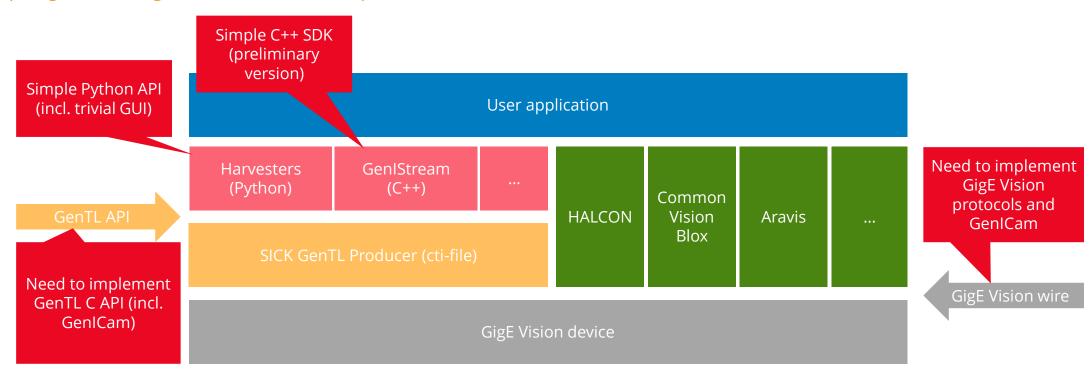


Complete picture



From the device to the user application

https://github.com/genicam/harvesters (https://harvesters.readthedocs.io/en/latest/)



User interface features

Overview of current parameters



Image component selection

Range and/or intensity data

Acquisition control

- Start/stop (free running mode)
- Exposure time (manual or automatic with additional parameters)
- Frame rate

3D model

- GenICam SFNC compliant 3D model description
- Presented through "chunk" (per-frame) metadata
- Field of view switch

GigE Vision

- Packet size, inter packet delay
- **Network infos**
- Heartbeat control

Other

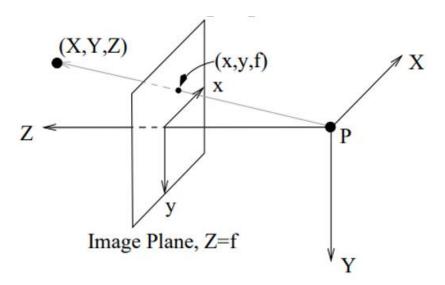
- Device identity information
- Fixed image size or pixel format info

3D output mode

ProjectedC mode proposal

- Output range (Z) **depth-map** only, X/Y coordinates computed based on **projective geometry** model
 - Based on published camera intrinsic parameters (focal length, optical center position...)
- Requires extension of GenlCam 3D model (**proposal published**, review & ratification in progress)
- Detailed description to be provided in a **dedicated document**

(source: https://www.cs.toronto.edu/~jepson/csc420/notes/imageProjection)



Current limitations or open topics



On the way to official release...

GigE Vision features

- The development is still in progress, the device is, however, officially GigE Vision compliant
 - Other optional features planned to be added during the beta development phase

Receiver application performance and documentation

- The **performance** might be sensitive to the PC, network components and receiver app itself
 - Might result in lost stream packets (dropped by overloaded network stack)
 - Solution: network driver config, packet size and inter packet delay
 - For beta customers the help/advice will be provided ad-hoc please ask in case of any issues
- Detailed **receiver examples** or simplified C++ SDK not yet available
 - Harvesters based Python scripts can be shared as starting point
 - For beta customers the help/advice will be provided ad-hoc please ask in case of any issues