



## **Class DeviceBuffer**

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Class Documentation

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- Defined in [File holoinfer\\_buffer.hpp](#)

## Class Documentation

class DeviceBuffer

Cuda Device Buffer Class.

Public Functions

explicit DeviceBuffer([holoinfer\\_datatype](#) type = [holoinfer\\_datatype::h\\_Float32](#))

Construction with default type.

Parameters

**type** – Data type, defaults to float32

DeviceBuffer(size\_t size, [holoinfer\\_datatype](#) type)

Construction with type and size.

Parameters

- **size** – memory size to be allocated
- **type** – Data type to be allocated

void \*data()

Get the data buffer.

Returns

Void pointer to the buffer

size\_t size() const

Get the size of the allocated buffer.

Returns

size

size\_t get\_bytes() const

Get the bytes allocated.

Returns

allocated bytes

void resize(size\_t number\_of\_elements)

Resize the underlying buffer.

Parameters

**number\_of\_elements** – Number of elements to be resized with

~DeviceBuffer()

Destructor.

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