



## **Program Listing for File bayer\_demosaic.hpp**

[Return to documentation for file \(](#)

`include/holoscan/operators/bayer_demosaic/bayer_demosaic.hpp` )

```
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"AS IS" BASIS, * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express or implied. * See the License for the specific language governing
permissions and * limitations under the License. */ #ifndef
HOLOSCAN_OPERATORS_BAYER_DEMOSAIC_HPP #define
HOLOSCAN_OPERATORS_BAYER_DEMOSAIC_HPP #include <npp.h> #include
<memory> #include <string> #include "holoscan/core/io_context.hpp" #include
"holoscan/core/io_spec.hpp" #include "holoscan/core/operator.hpp" #include
"holoscan/core/operator_spec.hpp" #include
"holoscan/utils/cuda_stream_handler.hpp" namespace holoscan::ops { class
BayerDemosaicOp : public holoscan::Operator { public:
HOLOSCAN_OPERATOR_FORWARD_ARGS(BayerDemosaicOp) BayerDemosaicOp() =
default; void setup(OperatorSpec& spec) override; void initialize() override; void
compute(InputContext& op_input, OutputContext& op_output, ExecutionContext&
context) override; void stop() override; private: Parameter<holoscan::IOSpec*>
receiver_; Parameter<holoscan::IOSpec*> transmitter_; Parameter<std::string>
in_tensor_name_; Parameter<std::string> out_tensor_name_;
Parameter<std::shared_ptr<Allocator>> pool_; Parameter<int> bayer_interp_mode_;
Parameter<int> bayer_grid_pos_; Parameter<bool> generate_alpha_;
Parameter<int> alpha_value_; NppStreamContext npp_stream_ctx_{};
NppiInterpolationMode npp_bayer_interp_mode_; NppiBayerGridPosition
npp_bayer_grid_pos_; nvidia::gfx::MemoryBuffer device_scratch_buffer_;
CudaStreamHandler cuda_stream_handler_; }; } // namespace holoscan::ops #endif/*
HOLOSCAN_OPERATORS_BAYER_DEMOSAIC_HPP */
```

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