

DEEVIEW



X400 AI Camera

- Machine learning smart camera
- ALVIUM image processing
- 384-core NVIDIA Volta GPU
- Store up to 2TB of images

Integrated Deep Learning Software

The DeepView™ X400 is the only artificial intelligence vision camera with onboard training and processing, eliminating the need for costly external servers. The patent pending design of the DeepView™ X400 brings the power of AI enabled vision to the market without the prohibitive overhead of other systems. The DeepView™ X400 onboard AI training and image processing application provides efficient implementation of visual inspection protocols. The user configurable, intuitive, browser accessible UI design means no programming, no additional software, no software licensing, and nothing additional to deploy. The DeepView™ X400 is the only AI camera able to train the AI in real-time.

Benefits and features

- Monochrome and color models
- Allied Vision Alvim 1500 C Camera
- ALVIUM® Technology for on-board image processing
- 384-core NVIDIA Volta™ GPU with 48 Tensor Cores
- 6-core NVIDIA Carmel ARM®v8.2 64-bit CPU
- PYTHON 480 CMOS sensor
- 4 storage options - from 100GB to 2TB
- Simple and intuitive user interface
- Available with your company name on the side

DEEVIEW

Hardware options

- Available with custom lettering on the sides
- Swivellink Mount

Hardware Specifications

Deepview	X400
Imager	Alvium CSI-2 CMOS
Resolution	1280 x 960
Acquisition Speed	50 FPS
GPU	384-core NVIDIA Volta™ GPU
CPU	6-core NVIDIA Carmel ARM@v8.2 64-bit CPU
Lenses	C-Mount
Memory options: File Storage	100GB, 500GB, 1TB, 2TB
Memory: Processing	8GB SDRAM
I/O: Network	Ethernet/IP Gigabit Ethernet (10/100/1000 Mbps)
I/O: Built-In	24 VDC
Connectors	Industrial M12 for Power and Ethernet
Dimensions	100x150x42mm

I/O Pinout*

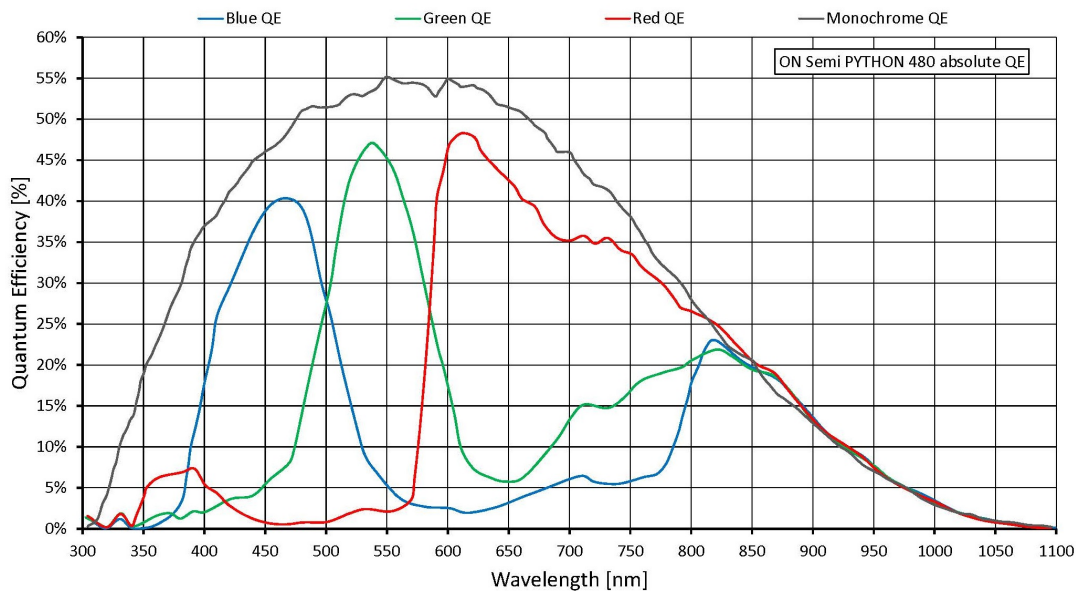
*Subject to change

I/O Function	Lead Color
BUSY	Grey/Pink
PASS	Green
FAIL	Red
HEARTBEAT	Violet
IMAGE CAPTURE TRIGGER	Yellow

Camera Specifications

Alvium 1500 C	-050
Bit depth	Max. 10 Bit
YUV color pixel formats	YUV422 8-bit (UYVY) [MIPI CSI-2 (FOURCC)]
RGB color pixel formats	RGB888 (RGB3) [MIPI CSI-2 (FOURCC)]
Raw pixel formats	RAW8 (GREY), RAW10 (Y10) [MIPI CSI-2 (FOURCC)]
General purpose inputs/outputs (GPIOs)	
TTL I/Os	2 programmable GPIOs
Operating conditions/dimensions	
Operating temperature	+5 °C to +65 °C housing temperature (with heat sink)
Power requirements (DC)	5 VDC over MIPI CSI-2
Power consumption	Typical: 1.3 W
Mass	10 g (bare board)
Body dimensions (L × W × H in mm)	7 × 26 × 26 (bare board)
Regulations	2011/65/EU, including amendment 2015/863/EU (RoHS)

Quantum efficiency



Technical drawings

All dimensions in mm

FIG. 1

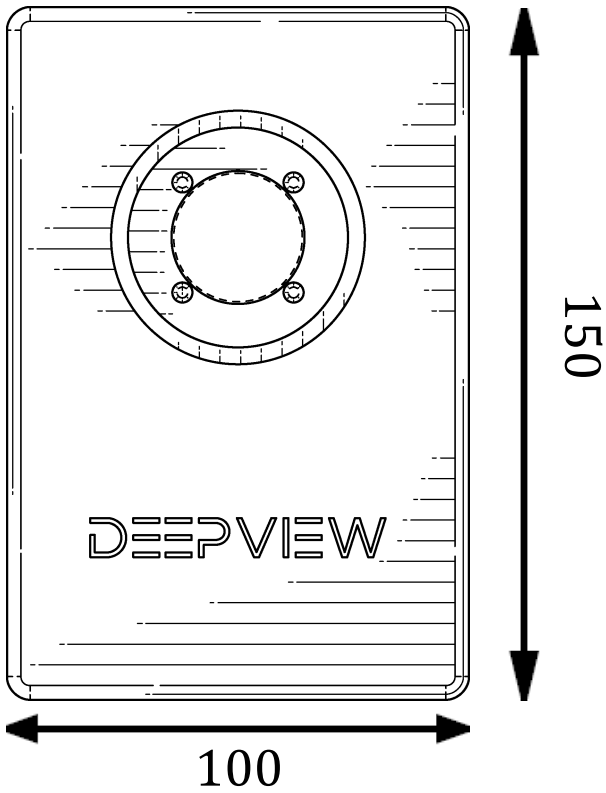


FIG. 2

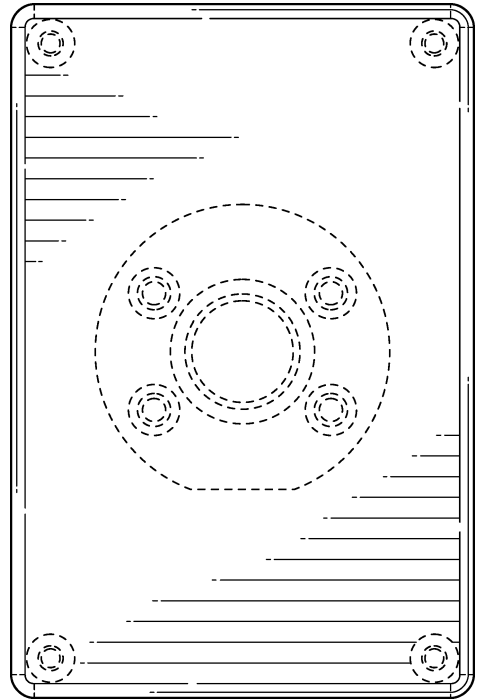


FIG. 3

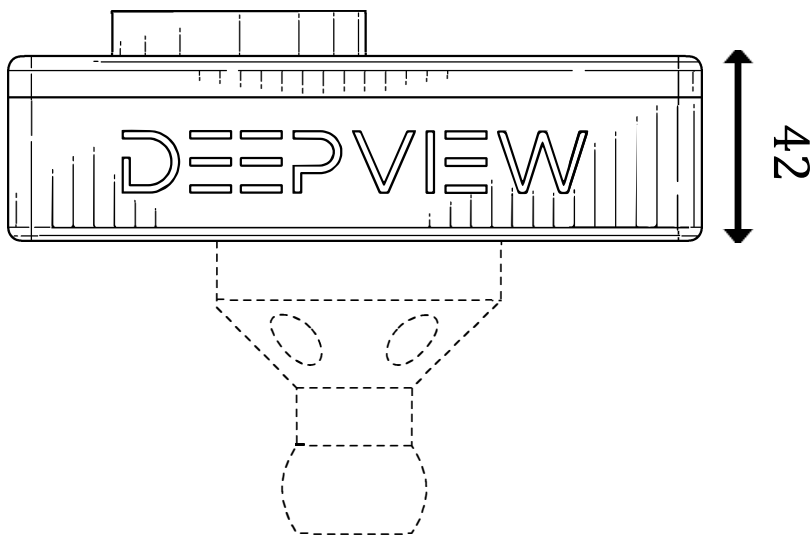


FIG. 4

