

# AP-3200T-USB-LS

**Technical Datasheet** 



**IMX265** 



# **Apex Series**



The Apex Series cameras are 3-sensor R-G-B prism cameras that separate the incoming light into red, green and blue wavelengths, which are directed to three separate image sensors.

The cameras deliver exceptionally accurate R-G-B raw image data ideal for demanding color machine vision applications across a range of industries including pharmaceutical, electronics, printing/packaging and imaging in microscopy and medical diagnostics equipment.

#### **Specification Highlights**

SENSOR: IMX265

1/1.8"

**PIXEL SIZE:** 3.45 x 3.45 µm

**LENS MOUNT:** C-Mount

SPECTRUM: Color (Visible + NIR) SHUTTER:

Global Shutter

**FRAME RATE:** 

38 fps

**INTERFACE:** 

USB3 Vision (PoUSB)

**RESOLUTION MP:** 

3.2 MP

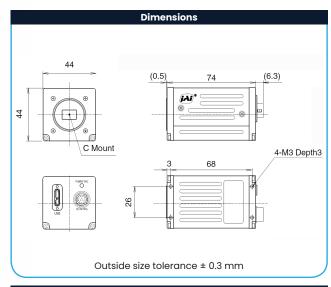
RESOLUTION WxH: 2064 x 1544 px

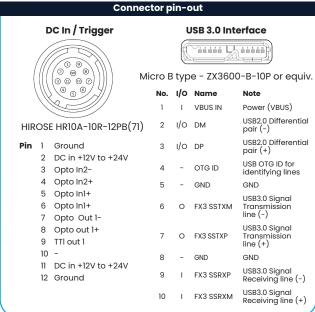
**FORMAT:** 

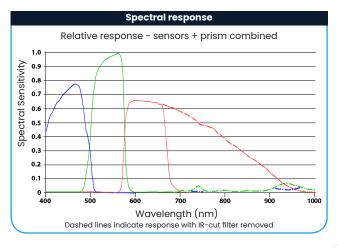




m x 3.45 µm  MHz (for pulse generator)  h) x 1544 (v) up to 38.3 fps 2064 pixels in 16 pixel steps 1544 lines in 2 line steps 5 overlapping scanning areas can be d. 1x2, 2x1, 2x2  butput format (\(\lambda\) = 525 nm)  HB  (0 dB gain, 10-bit)  1-bits per channel (24/30/36-bit RGB) II, Single ROI, Multi ROI, Sequencer III control - master mode or individual channels
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n (2), Pulse Generators (4), Software, Dut (2), User Output (4)
EPS, Trigger Width, Auto
e set independently for R/G/B channels is to 8 sec. in 1 µs steps (8-bit) is to 8 sec. in 1 µs steps (10-bit)
r range from 100 µs to 13.427 ms, Inge from 0 dB to +12 dB. ng speeds and max. values adjustable
nhancer, edge enhancer, color space sion (RGB to HSI, XYZ, sRGB, Adobe RGB) h compensation (200 px/channel)
+45°C (20 to 80% non-condensing)
to +60°C (20 to 80% non condensing)
Hz to 200 Hz, XYZ directions)
61000-6-2, EN61000-6-3) FCC Part 15 3, ROHS/WEEE
o +24V DC ± 10%. 5.3 W typical @ +12 V wer: not supported
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<sup>†</sup>12-bit output available in video processing bypass mode. See manual for details.

AP-3200T-USB-NF-LS



Vision Same as above with IR-cut filter

<sup>\*</sup>Traditional SNR is based on random noise in a single frame, where EMVA SNR measurements consider more comprehensive noise sources and variance over time.



### **Product Highlights**

- High resolution prism-based 3CMOS camera
- Full spatial resolution and true RGB color values with no interpolation
- Available with or without IR-cut filter for applications needing extended red/NIR response
- Individual analog gain and exposure control for R, G, and B channels
- Color and edge enhancement functions
- On-board RGB to HSI, XYZ, sRGB and Adobe RGB color space conversions
- Single and multi-ROI's
- RGB video output with 8, 10, or 12-bits per channel\*
- Compact size and white housing designed for clinical/laboratory environments
- Excellent shock and vibration resistance
- **USB3** Vision interface
- C-mount lens mount

## **Additional Product Images**







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<sup>\*</sup> Some video processing functions not available with 12-bit output