

■ 2064 x 1544

■ 12 fps

Apex Series 

GigE
VISION

❖ AP-3200T-PGE

3.2 megapixel CMOS prism area scan



- **High resolution prism-based 3CMOS camera**
- **Full spatial resolution and true RGB color values with no interpolation**
- **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 smart design**
- **Excellent shock and vibration resistance**
- **GenICam-compliant GigE Vision 1.1 interface**
- **C-mount lens mount**

* Some video processing functions not available with 12-bit output

Specifications for AP-3200T-PGE

Apex Series

Specifications	AP-3200T-PGE
Sensor	1/1.8" 3-CMOS global shutter (IMX265)
Active pixels	2064 (h) x 1544 (v) x 3 (R,G,B)
Frame rate, full frame	12 frames/sec. @ 8-bit
Active area	7.12 mm (h) x 5.33 mm (v) - 8.89 mm diagonal
Pixel size	3.45 μm x 3.45 μm
System clock	74.25 MHz (for pulse generator)
Read-out modes	Full ROI (single) 2064 (h) x 1544 (v) up to 12 fps H: 16 to 2064 pixels in 16 pixel steps V: 2 to 1544 lines in 2 line steps ROI (multi) Binning Up to 5 overlapping scanning areas can be defined. 1X2, 2X1, 2X2
EMVA 1288 Parameters	12-bit output format
Absolute sensitivity	3.85 p (λ = 525 nm)
Maximum SNR	40.49 dB
Traditional SNR*	>60 dB (0 dB gain, 10-bit)
Video signal output	8/10/12-bits per channel† (24/30/36-bit RGB)
Video modes	Normal, Single ROI, Multi ROI, Sequencer
Gain	Manual control - master mode or individual R/G/B channels Auto gain control - off, continuous, one-push
White balance	Off, 4 presets (3200K, 5000K, 6500K, 7500K), or one-push/continuous AWB using gain or exposure time (3000K to 9000K)
Gamma/LUT	0.45 to 1.0 (9 steps) or 257-point programmable LUT
Shading correction	Flat shading, color shading
Trigger input	Opto In (2), Pulse Generators (4), Software, NAND Out (2), User Output (4)
Exposure modes	Timed/EPS, Trigger Width, Auto
Electronic shutter	(can be set independently for R/G/B channels) 14.73 μs to 8 sec. in 1 μs steps (8-bit) 14.73 μs to 8 sec. in 1 μs steps (10-bit)
Auto Level Control (ALC)	Shutter range from 100 μs to 13.427 ms, gain range from 0 dB to +12 dB. Tracking speeds and max. values adjustable.
Pre-processing functions	Color enhancer, edge enhancer, color space conversion (RGB to HSI, XYZ, sRGB, Adobe RGB), blemish compensation (200 px/channel)
Operating temp. (ambient)	-5°C to +45°C (20 to 80% non-condensing)
Storage temp. (ambient)	-25°C to +60°C (20 to 80% non condensing)
Vibration	3G (20 Hz to 200 Hz, XYZ directions)
Shock	50G
Regulations	CE (EN61000-6-2, EN61000-6-3) FCC Part 15 Class B, RoHS/WEEE
Power	12-pin PoE +12V to +24V DC ± 10%. 5.4 W typical @ +12 V +36V to +57 V DC. 7.5 W typical @ +48 V
Lens mount	C-mount
Dimensions (H x W x L)	44 mm x 44 mm x 84 mm (excl. connectors)
Weight	200 g

Ordering Information	
AP-3200T-PGE	3-CMOS prism color camera with GigE Vision

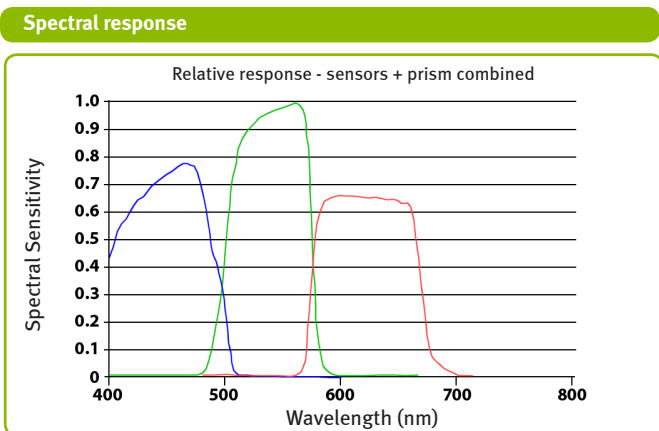
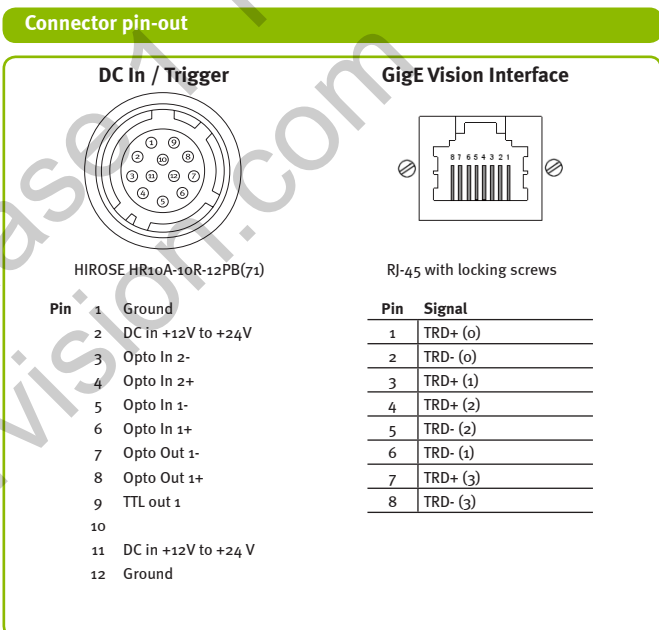
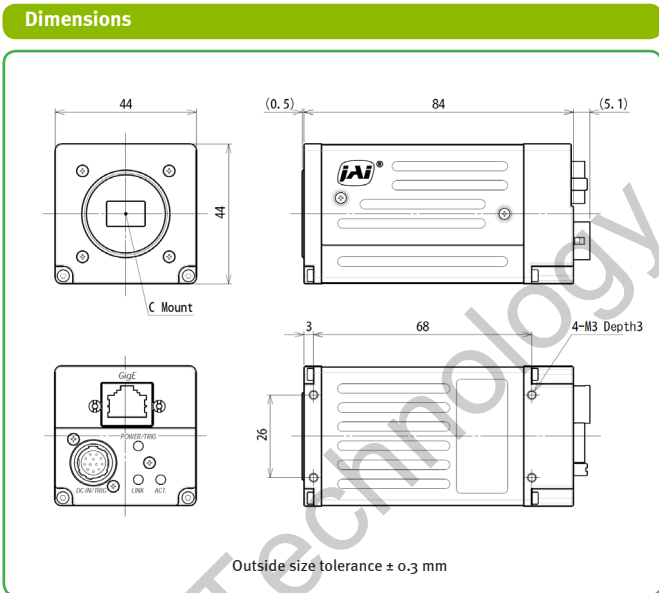
*Traditional SNR is based on random noise in a single frame, where EMVA SNR measurements consider more comprehensive noise sources and variance over time.

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†12-bit output available in video processing bypass mode. See manual for details.

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See the possibilities