CV-M9 GE

3CCD Progressive Scan RGB Color

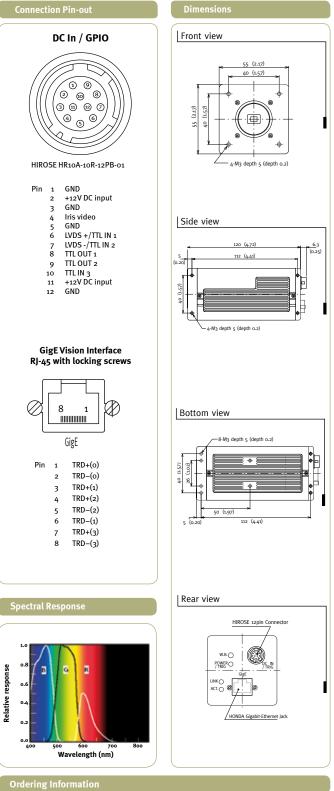




- 3 x 1/3" progressive scan RGB color camera
- 1024 (h) x 768 (v) active pixels
- 4.65 μm square pixels
- Compact RGB prism for C-mount lenses
- Chromatic shading reduction for wider choice of lenses
- 30 frames/second with full resolution
- 86 frames/second with 1/8 partial scan
- Vertical binning for higher sensitivity and frame rate
- 12-bit internal video processing
- 24 or 30-bit RGB output via GigE Vision
- Edge Pre-Select and Pulse Width Control trigger modes
- Sequencer trigger mode for on-the-fly change of shutter, gain and ROI
- Manual, continuous (auto-tracking) or one-push auto white balance
- Color bar test image for set-up
- Comprehensive software suite and SDK for Windows XP



Specifications	CV-M9 GE
Sensor	a v 4/a" progressive scan CCD
Pixel clock	3 x 1/3" progressive scan CCD 33.75 MHz
Frame rate full frame	30 frames/sec.
	(729 lines per frame)
Active area	4.5 (H) x 3.6 (v) mm
Cell size	4.65 (h) x 4.65 (v) μm
Active pixels	1024 X 768
Readout modes Full	1024 (h) x 768 (v) 30 fps
1/2 partial	1024 (h) x 384 (v) 48 fps
1/2 partial	1024 (h) x 192 (v) 68 fps
1/8 partial V. binning	1024 (h) x 96 (v) 86 fps 1024 (h) x 384 (v) 50 fps
Smear-less	In conjunction with trigger only.
Region-of-interest (ROI)	2 non-overlapping. User def. Mem. readout
Sensitivity	2 Lux (On sensor. Max. gain, 50% video)
S/N ratio	>50 dB (Green ch., o dB gain)
Video output	GigE Vision, 3 x 8-bit or 3 x 10-bit
Auto-iris lens video	0.7 Vp-p
Gain	Manual
Gain range, Master	-3 to +12 dB
R and B Synchronization	-6 to +6 dB External hardware trigger via GPIO
Sylicilionization	Software trigger via GigE Vision
GPIO Module	33.4.4.4.60
Input / output switch	Configurable 12-in / 9-out switch
Clock generator (one)	12-bit counter (based on 25 MHz clock or Pixel Clock)
Pulse generators (four)	20-bit counters programmable for length,
	start point, stop point, repeat
Hardware trigger modes	Continuous
	Edge-Pre Select (EPS) Pulse Width Control (PWC)
	Sequence (Gain, Shutter, ROI)
Electronic shutter	./
Pre-set shutter Programmable exposure	1/30 to 1/50,000 in 12 steps 1/30 s (791L) to 1/50,000 sec. (0.5 L) in 42
	μs steps. Common and R, G, B individual.
Exposure time (Abs) Pulse Width Control	μsec – user definable. Same range as PE
White balance	66.7 µs to 2 sec. Manual, R and B, -6 to +6 dB
Wille balance	One-push automatic, 2800 to 6500K
	Continuous automatic
Knee function	Fixed 3200, 4600 and 5600K
	Knee point and slope individually for R, G, and B
Control interface	Register based. GigE Vision/GenICam compliant
Functions controlled via	Shutter, Gain, Black level, Trigger mode,
GigE Vision interface	Readout mode, GPIO setup, ROI (GenICam mandatory functions)
GigE Vision streaming	Packet size, Delayed (frame) Readout,
control	Inter-packet delay
Indicators on rear panel	Power/Hardware trigger, GigE link, GigE activity
Operating temperature	-5°C to +45°C
Humidity	20 - 80% non-condensing
Storage temp./humidity	-25°C to +60°C / 20 to 80%
Vibration	3G (20Hz to 200Hz XYZ)
Shock Regulations	50G
negulations	CE (EN 61000-6-2, EN-61000-6-3), FCC part 15 class B, RoHS/WEEE
Power	12V DC ± 10%. 9.6 W
Lens mount	C-mount (Max 4.0 mm thread)
Dimensions (H x W x L)	55 X 55 X 120 mm
Weight	425 g



CV-M9 GE 1/3" 3 CCD Progressive Scan RGB Color Camera.

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