

# 2700 Series Very Low Light Level CCD Camera

**COHU**

*Achieves near Gen-1 quality video at a fraction of the price*

*One cable connectivity provides it all: power, video, and control*

*Small! Only 2.5" x 1" x 1"  
Front sensor plate will orient 45° for specialized installations*

*Custom designs and configurations welcome*

*Exterior sealed and pressurized model available*



**1/2" Interline Transfer Sensor  
with Dual Gain Circuitry**

## APPLICATIONS

- Surveillance
- Industrial Inspection
- Low-light Observations
- X-Ray Applications

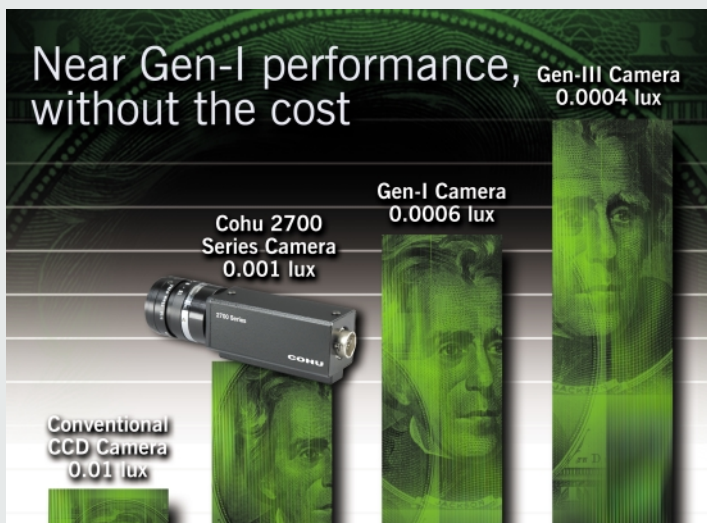
By using specially designed dual-gain circuitry, the Cohu 2700 Series will give you near Gen-1 low light level performance at a fraction of the price. And its compact size and single connector wiring make it easy to put nearly anywhere.

This professional grade camera is a cost-competitive solution for industrial inspection, machine vision, security, and medical imaging.

For specialized installations, the front plate is easily removed and oriented up to 45° off center, adding to its mounting options. For exterior installations, such as security and surveillance applications, the camera and related hardware can be enclosed in a Cohu sealed and pressurized housing.

And because Cohu specializes in OEM cameras, you'll find economical pricing, as well.

Optics are standard C/CS-mount. Designed and manufactured in the USA, the Cohu 2700 Series is backed by a two-year warranty.



*The Cohu 2700 Series camera provides near-intensified video performance at a fraction of the cost.*

## SPECIFICATIONS

### ELECTRICAL

#### Sensor

1/2" 8.4 (H) x 9.8 micron (V)  
(RS-170);  
8.6 (H)x8.3 micron (V) (CCIR)

#### Actual Pixels

768 x 494 (RS-170);  
752x582 (CCIR)

#### Resolution

580 HTVL (RS-170);  
560 HTVL (CCIR)

#### Sensitivity

Full video, max gain, AGC off:  
Standard: .007 lux  
Extended: .004 lux  
80% video, max gain, AGC off:  
Standard: .005 lux  
Extended: .003 lux

#### Shutter

Switchable 1/60 (1/50 CCIR) to  
1/100,000 sec

#### Gain

Auto/manual 0 to 46 db

#### SNR

58 dB max; 10 dB with 46 dB  
gain

#### Image Processing

Gamma fixed at 0.6 (1 or  
0.45); no sharpness circuit;  
field mode only

#### Lens Drive

Both auto and DC iris interfaces  
included

#### Sync

Crystal; or line lock; external  
based on adjustable reference

#### Power

12 VDC , 2.7 W

### MECHANICAL

#### Dimensions

2.84" (D) x 1" (W) x 1" (H)  
(less lens); see illustration  
below

#### Weight

250 grams

#### Lens

C/CS mount

#### Connector

Hirose HR10A-10R-12PC

### ENVIRONMENTAL

#### Temperature

-20° to 60°C operating;  
-30° to 85°C storage

### REGULATORY

FCC/CE Class B

## ORDERING INFORMATION

**27X X-XXXX/XXXX**

Low light level camera

#### Housing

- 1 - Indoor
- 4 - 4.5" Environmental enclosure with heater

#### Power Configuration

- 2 - 12 VDC operating power (indoor only)
- 4 - 24 VAC/VDC (CE)  
(4.5" environmental enclosure only)
- 5 - 115 VAC  
(4.5" environmental enclosure only)

#### Sync

- 1 - Internal crystal
- 2 - Line lock (4.5" environmental enclosure phase adjust)

#### Iris options

- 0 - Auto/DC iris
- 3 - Electronic iris

#### Format

- 2 - 1/2" (RS-170), standard sensitivity
- 3 - 1/2" (RS-170), extended near-IR sensitivity
- 5 - 1/2" (CCIR), standard sensitivity
- 6 - 1/2" (CCIR), extended near-IR sensitivity

#### Accessories

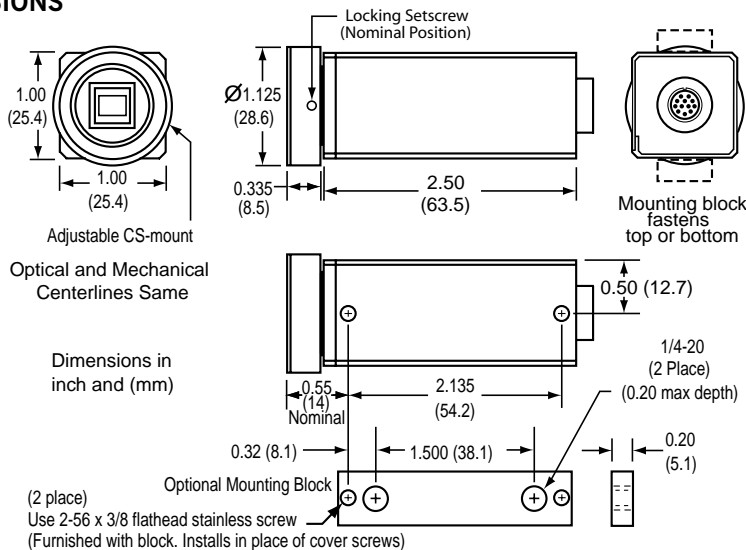
- 0 - None
- 1 - Test cable CTC-31 (indoor only)
- 2 - Accessory kit (indoor only)
- 3 - Test cable & accessory kit (indoor only)
- 4 - ID generator (4.5" environmental enclosure only)
- 5 - Fiber optic (4.5" environmental enclosure only)
- 6 - ID generator & fiber optic video

#### Lenses

Select from a wide range of manual iris lenses that suit your application.  
Consult your Cohu sales representative.

**Note:** Accessory kit includes allen wrench, power connector,  
mounting block, and C/CS lens adapter.

## DIMENSIONS



The same fine camera is available  
packaged for harsh environments.  
Contact factory.